ADMINISTRATION REPORT

OF

THE GOVERNMENT MUSEUM, MADRAS
THE NATIONAL ART GALLERY, MADRAS
THE GOVERNMENT MUSEUM, PUDUKKOTTAI

AND

THE CONNEMARA PUBLIC LIBRARY (EXCHANGE SECTION), MADRAS

FOR

1955-56

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1957

SOME OF THE MUSEUM'S SERVICES.

The Madras Museum is open to the public every day in the week, except Friday, from 7 a.m. to 5 p.m. Admission is free.

It receives parties of school children and arranges facilities for guiding organized groups of visitors round the galleries.

It arranges demonstrations to teachers from various High schools and Corporation schools in the City.

It provides a special service whereby illiterate visitors are guided round the galleries and helped to understand the exhibits.

It conducts a practical training course in Museum Technique for teachers from various schools in the State every year during the summer months.

It welcomes co-operation with learned societies; the Archæological Society and the South Indian Society of Painters meet in the Museum. The Museum has a well-equipped theatre—the Museum Theatre—for educational lectures, dramatic entertainments, etc.

The Centenary Exhibition Hall is let out at a nominal rent of Re. 1 for meetings of cultural organizations and Rs. 2 for exhibitions.

It has large collections which are available for study by research workers, and helps students and laymen in identifying specimens of plants, animals, minerals, coins and pre-historic antiquities.

It offers for sale to the public, coins, picture post cards, photographs and publications relating to the collections contained in the Museum.

THE NATIONAL ART GALLERY (MADRAS).

The National Art Gallery is open to the public every day in the week, except Friday, from 9 a.m. to 12 noon and 2 p.m. to 5 p.m. Admission is free.

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ADMINISTRATION REPORT OF THE GOVERNMENT MUSEUM, MADRAS, THE NATIONAL ART GALLERY, MADRAS, THE GOVERNMET MUSEUM, PUDUKKOTTAI, AND THE CONNEMARA PUBLIC LIBRARY (EXCHANGE SECTION), MADRAS, FOR THE YEAR 1955–56.

I

GOVERNMENT MUSEUM, MADRAS.

GENERAL.

Visitors.—There has been a marked increase of 35 per cent in the number of visitors during the period under report over that of the last year. The number of visitors during the year under report was 624,638 as against 463,466 during the year 1954–55.

Museum Committee.—The Committee met once during the period under report.

Museum posters.—To popularise this Museum, posters have been displayed in 72 Railway stations all over India during the year 1955–56 at the rate of two posters in each station, one in English and the other in the language of the locality. The poster is illustrative of a portion of the Museum Theatre with a cannon in front of it. Posters in English have the caption "*Visit Madras Museum*". Since this sort of advertisement seems to have publicity value, the contract for the display of the posters has been renewed for one more year. Arrangements are being made for the display of the Museum posters in about 100 more A and B Class stations in addition to the 72 stations where the posters were displayed in 1955–56.

Expert Museums Survey Committee.—The Government of India constituted an Expert Museum Survey Committee to report on the needs of museums in India. As a member of this committee, I attended its meetings in New Delhi and visited the museums of the southern region of India with the members of the sub-committee of the main committee.

Distinguished visitors.—Among the distinguished visitors to the Museum were Mr. S. C. Corea, Minister of Commerce, Trade and Fisheries, Ceylon; Sri Naba Krishna Chowdhury, Chief Minister, Orissa; Rt. Hon. Malcolm Macdonald, High Commissioner for the United Kingdom in India; Madame Soon Ching Ling, Vice-Chairman of the Standing Committee of the National People's Congress of China; Dr. Mehta, Indian Ambassador for Switzerland; their Majesties the King and Queen of Nepal; and Mr. Grayson Kirk, President of the Colombo University. The Polish Cultural Delegation also visited the Museum.

Honorary correspondents.—The term of the first batch of 126 honorary correspondents for the museum appointed in 1951 expired on 4th October 1954. A fresh group of 42 honorary correspondents, three for each of the 14 districts of the State, were appointed (G.O. Ms. No. 1964, Education, dated 12th December 1955). The correspondents will hold office for a period of three years from 12th December 1955. A list of the correspondents is given in Appendix VIII.

Audio-visual education.—Fifty-two more sets of metal casts of coins of India, representative of the coinage of India through the ages, were sold to the educational institutions under the visual education scheme.

Course in Museum Technique.—Two batches of teachers were given intensive training in Museum Technique during the months of May and June 1955, each batch undergoing a fortnight's training in Museum methods in Zoology, Botany, Geology, Archæology, Anthropology, Numismatics and Chemical Conservation.

Demonstrations to school teachers.—One hundred and one teachers belonging to 20 city high schools attended the Demonstrations in Anthropology, Archæology, Geology, Botany and Numismatics on Saturdays during November and December 1955.

Children's Museum.—On the recommendation of the Museum Committee, Government constituted an ad-hoc committee to work out details for the opening of a Children's Museum. The ad-hoc Committee had as members the Director of Public Instruction and 13 teachers of the local schools, and the Superintendent, Government Museum, Madras, as Convenor. This committee selected a list of exhibits for the proposed Children's Museum. The list of exhibits and the details were later considered by the Museum Committee at two of its meetings. The proposal for the construction of a building for the Children's Museum and other connected schemes are now under the consideration of the Government.

Training in Museum methods.—Sri N. G. Unnithan, Curator, Art Museum, Trivandrum, has been given training in Iconography, Numismatics and allied subjects for a period of about one month from 31st March 1956.

Buddha Jayanti Celebrations.—The preliminary work connected with the Buddha Jayanti celebrations was taken up during the close of the period under report.

Notable additions.—Among the gifts and notable additions to the Museum during the year under review are (1) engraved "Steuben Glass plate" with rose design obtained in exchange from Corning Glass Center, United States of America for ancient Arikamedu glass beads of this Museum, (2) a bronze sculpture "When Winter Comes" by D. P. Roy Chowdhury, purchased for the National Art Gallery, (3) "Horse" a painting on paper in thick tempera of the folk school, purchased, (4) Miniature palanquin in wood with ivory inlay work, purchased.

Chief donors of the year were (1) Sri R. N. Mukerjee, Tea Board, Madras-2, (2) Sri S. V. Parthasarathy, Sugarcane Specialist, Central Sugarcane Research Station, Palur, (3) Sri P. Venkataramany, State Silviculturist, Ootacamund, (4) Lt. Col. E. G. Phythian Adams, Ootacamund, Nilgiris, and (5) Sri P. S. Padhye, Ogale Glass Works, Limited, Ogalevadi, North Satara district.

Special exhibitions.—The following special exhibitions were held during the period under report :—

(1) "Ancient South Indian Temple Utensils."
(2) "Colour and Beauty in Birds' Eggs."
(3) "Gond Jewellery."
(4) "Satavahana Coins."
(5) "Tea."

Centenary Exhibition Hall.—The following exhibitions and meetings were held in the hall during the year under report :—

1	Exhibition of paintings by South Indian Society of Painters, Madras.	From 1st to 6th April 1955.
2	Meeting of the Archæological Society of South India.	30th April 1955.
3	Exhibition of paintings by the Tagore Academy, Madras.	8th to 14th May 1955.
4	Meeting of the Social Sciences Association, Madras.	24th May 1955.
5	Meeting of the Kerala Association, Madras.	26th June 1955.
6	Exhibition of paintings and drawings by Sri L. Munuswamy, Artist, Madras.	12th to 17th August 1955.
7	Meeting of the Social Sciences Association, Madras.	22nd August 1955.
8	Exhibition of wood cuts by South Indian Society of Painters.	27th August 1955 to 3rd September 1955.
9	Meeting of the Last Grade Government Servants' Association, Madras.	10th September 1955.
10	Meeting of the Social Seiences Association, Madras.	11th October 1955.
11	Meeting of the Archæological Society of South India,	27th October 1955.
12	Exhibition of Russian Arts and Crafts by the All-India Fine Arts and Crafts Society, New Delhi.	5th to 24th November 1955.
13	Meeting of the Archæological Society of South India, Madras.	20th December 1955.
	Do.	24th December 1955.
14	Exhibition of photographs by Sri K. K. Nair, Press Information Bureau, Government of India.	23rd to 29th January 1956.
15	Exhibition of paintings by Shanti Lal Shah, Shool of Arts and Crafts, Madras.	3rd to 12th February 1956.
16	Meeting of the Archæological Society of South India, Madras.	25th February 1956.
17	Do.	28th February 1956.
18	Meeting of the South Indian Society of Painters, Madras.	11th March 1956.

NEW ADDITIONS TO THE COLLECTIONS.

Zoology.—The following specimens were added to the collections during the year under review :—

Molluscs.—(1) A collection of 13 named specimens of South Australian species of Chitons got by exchange from Dr. P. Kaas of Holland; (2) a collection of dry shells of the freshwater snail *Vivipara bengalensis.*

Insects.—(3) Two specimens of the peculiar mimicking Orthopteran, *Gongylus gongyloides;* (4) five specimens of the six-spotted black beetle *Anthia sexguttata;* (5) a collection of 19 specimens of Burmese species of Butterflies and Moths, presented by Lt.-Col. E. G. Phythian-Adams.

Fishes.—(6) Two specimens of the caudal spines of the Sting Ray, *Trygon sp.*, with serrated edges.

Reptiles.—(7) One specimen of the Green Whip Snake, *Dryophis nasutus;* (8) one specimen of the Kukri Snake, *Oligodon taeniolatus;* (9) one young specimen of the brackish water snake, *Cerberus rhynchops;* (10) two specimens of the Checkered Keelback, *Natrix piscator;* (11) one large brightly coloured specimen of the Banded Krait, *Bungarus fasciatus*, received from the Madras Zoo; (12) one specimen of the Diamond-backed Rattle Snake, *Crotalus ruber ruber*, received from the Madras Zoo; (13) one skin of the Python or Rock Snake, *Python molurus;* (14) one specimen of the Common Blind Snake, *Typhlops braminus;* (15) one specimen of the Mobile Tortoise, *Pseudemys floridana mobiliensis*, received from the Madras Zoo; (16) one newly hatched young specimen of the Pond Tortoise, *Geomyda trijuga*, and (17) a collection of 13 eggs of the Common Garden Lizard, *Calotes versicolor.*

Birds and birds' eggs.—(18) One specimen of the African Love Bird, *Agapornis personata*, received from the Madras Zoo; (19) one male specimen of the Ruddy Sheldrake of Brahminy Duck, *Casarca ferruginea*, received from the Madras Zoo; (20) one egg of abnormally small size, of the domestic fowl; (21) two eggs of the house crow, *Corvus splendens*, collected locally, and (22) a collection of about 150 clutches of birds' eggs of various species from different localities, comprising about 500 specimens, acquired from the late Mr. C. M. Inglis' collection through Lt.-Col. E. G. Phythian-Adams, Ootacamund, Nilgiris.

Mammals.—(23) A young, 6-day old specimen of the Spotted Deer *Axis axis;* (24) The skin and skull of a male specimen of the Wild Cat, *Felis chaus kelaarti*, presented by Lt. Col. E. G. Phythian-Adams, and (25) one horn of the Sunderbunds Rhinoceros, *Rhinoceros sondaicus*, from Malaya, purchased locally. All the specimens acquired during the year were suitably preserved, labelled, accessioned and added to the existing collections of the respective groups.

Botany.—Eight specimens, illustrative of the tea industry, were received free of cost from Sri R. N. Mukherjee, Tea Board, Madras-2. One distribution map of "Sugarcane Industry in South India" was procured free from Sri S. V. Parthasarathy, Sugarcane Specialist, Central Sugarcane Research Station, Palur (via) Nellikuppam. Two pressed specimens of *Rauwolfia serpentina* were obtained free from Sri P. Venkataramany, State Silviculturist, Ootacamund.

Geology.—Seven specimens, illustrative of the glass industry, were procured free of cost from Sri P. S. Padhye, Ogale Glass Works, Limited, Ogalevadi, N. Satara district. A small specimen of a fossilised Proboscidean molar, was received for examination, from Sri Karanth of Puthur, South Kanara.

Anthropology.—The following new additions were made during the year :—One Japanese rifle, a confiscated firearm, was presented to the museum by the District Committee of North Arcot, Vellore.

A collection of ethnographic materials of the Assam tribes was obtained on an exchange basis from the Cotton College, Gauhati. This collection includes Naga woman's dress, Naga smoking pipe, Khasi hoe, Mikir pellet bow, model of a fishing basket used by the plains people of Assam, valveless fishing trap used by the Garo, single valved fishing trap used by the Mikir, a gourd driking vessel used by the Khasis, Garo hoe, bamboo betelnut case used by the Ravas, Assamese hat, a model of a Khasi carrying basket and bamboo drinking vessel used by the Mikir.

A flint and steel fire making apparatus used by the Muduga of Pottikal and two bamboo bow type rat traps used by the Irula of Chemmanur were purchased during the tour of the Attapady valley by the Superintendent and the Curator for Anthropology.

A collection of ethnographic materials of the Bihar tribes was obtained by exchange from the Department of Anthropology, Bihar University. This collection includes a pellet bow of the Asur, a bow of the Asur, an arrow of the Asur, three bomboo combs of the Munda, and a net used by the Birhor for catching monkeys and rabbits.

A small collection of 216 beads of carnelian, greenstone, chalcedony and metal was obtained from an excavation of a rock cut tomb situated on Nadu Kani parambu, Mouriyam desam, Pariyapuram amsom, Ponnani taluk, Malabar.

Fifteen glass beads, five red, five yellow, two blue and three green called Trade wind beads dated to about 800–1000 A.D. were obtained on an exchange basis from Dr. Van Der Sleen of Amsterdam, Holland.

Numismatics.—Seven English East India Company three Swami pagodas from North Arcot district, eightythree Swami pagodas from Salem district, sixty-nine Indo-British silver coins

from Coimbatore district and one half-rupee Travancore coin from Tanjore were acquired as treasure-trove.

Two Ceylon copper coins, one silver Chola coin, six Roman and Byzantine copper coins, and one Indo-British copper coin were added by purchase from Collectors of coins.

Five gold coins of Gangeya Deva (Haihaya or Kalachuri dynasty of Dahala) were distributed to this Museum by the Central Museum, Nagpur.

Archæology.—During the year seventeen metal images and twenty-two metal utensils have been acquired from treasure-trove finds (*vide* Appendix II for details). Besides, forty-eight other articles consisting of stone images, copper-plate grants, metalware articles and paintings have been added to the collections (*vide* Appendix III for details). Of these a beautiful " Steuben glass-plate " engraved with a rose design was obtained from the Corning Glass Center, United States of America, in exchange for ancient glass beads from Arikamedu. Similarly six paintings by Japanese school children were obtained in exchange for eleven paintings by Madras State school children.

RESEARCH AND PUBLICATION.

Zoology.—The Curator continued studying and examining the specimens of South Indian Land and Freshwater Molluscs (both dry and spirit-preserved) in the collections of the museum and also continued the study of the relevant literature on the species examined. A systematically arranged list of the species of Land and Freshwater Molluscs in the collection has been prepared and the Curator has commenced the preparation of detailed structural and systematic notes, synonomy and locality lists, measurements of the specimens examined, etc., for a systematic account on the subject.

The Bulletin on the Scaphopoda, Pelecypoda and Cephalopoda of Krusadai Island by Dr. S. T. Satyamurti was under publication during the year and the Curator scrutinized, corrected and returned the proofs to the press twice during the year. The alphabetical index to the above bulletin was also prepared by the Curator and sent to the press for incorporation into the bulletin.

The paper on the Cirripedia of the Madras Coast by Dr. A. Daniel was also under publication as a Museum Bulletin during the year. The final proofs of this paper were scrutinized, corrected, approved and returned to the press for final striking during the year, and clean copies are expected to be received from the press shortly.

The manuscripts and plates of the paper entitled "Amphipoda of the Madras Coast" by Sri K. Nagappan Nair were scrutinized, edited and kept ready to be sent to the press for publication as a Museum Bulletin in the Natural History Series as soon as the press was free to undertake the work.

Botany.—Experiments on easy means of dust-proofing the show-cases, were further pursued. Several experiments were carried out, with varying results, on permanent eradication of "terrace-weeds". As they involved also an indirect threat to the building concerned, no hurried recommendations could be made. The Curator toured the length and breadth of the Chingleput district taking photographs and collecting specimens for his research and publications. The specimens collected were given the treatment necessary for their storage. A popular note on the Botany Section, was prepared for forwarding to the Museums Association of India, for publication in their journal. "Vernacular List of Trees, Shrubs and Woody Climbers" by Lushington, was purchased for the Section Library.

Anthropology.—The paper "Dermatoglyphics of the Nayadis and Paniyas" by the Superintendent and the Curator for Anthropology is in preparation for the press. The paper "An Ethnohistoric Study of the Tali rite" by the Superintendent and the Curator for Anthropology is in preparation. The ethnographic study of the aboriginal tribes of the Attapady Valley, Malabar, especially the Mudugas and Irulas by the Superintendent and the Curator for Anthropology is in progress. The pilot survey was conducted in the museum of the family situation of three generations of rural immigrants to the City of Madras, by the Superintendent and the Curator for Anthropology in which it was found that the joint family sentiment of the sample was quite strong. The Superintendent in his capacity as the Chairman of the Social Sciences Association, Madras, convened the All-India Conference of Anthropologists and Sociologist during November 1955. At the session of the conference in which prominent anthropologists and sociologists from all over India and abroad participated, the Superintendent led a discussion of "Problems of Teaching Anthropology and Sociology" and the Curator for Anthropology read a paper on "A Preliminary Survey of Suicide in South India". At the UNESCO Seminar conducted at the University of Madras, the Superintendent read a paper on "Traditional Culture of Communities with particular reference to the effects of recent industrial and social developments". The final proofs of the "Catalogue of the Musical Instruments exhibited in the Government Museum" by Prof. P. Sambamoorthi of the University of Madras were corrected and the revised edition of the catalogue was published during this year.

Archæology.—The Curator continued the study of the Jain sculptures and the study of copper-plate grants. In view of the fact that a large number of ancient metal images have come to be

known, the Curator has commenced their systematic study to supplement the work that has already been done on them. The second proof of the bulletin " Early Eastern Chalukyan Sculpture " was sent to the press after correction. The large number of photographs of details of the gopurams necessary for the Bullettin." The Gopurams of Tiruvannamalai " by Dr. F. H. Gravely have been prepared and the manuscript together with the prints will be sent to the press soon. The Curator Sri P. R. Srinivasan published an article on the " Wood carvings and rathas " of South India in " *The Hindu* ". He also contributed in article on " Siva Nataraja, the Cosmic Dancer " to the Roopalekha, an illustrated Journal of the All-India Fine Arts and Crafts Society, New Delhi. He also contributed an article in Tamil on " Structural temples of North India " and another article in Tamil on " Gopurams " to the Tamil Encyclopaedia.

Numismatics.—A catalogue of the Satavahana coins in this Museum has been prepared by Prof. M. Rama Rao of the Nizam's College, Hyderabad, which is going to be published as a Museum Bulletin. Prof. R. A. Faruqui of the Government Arts College, Madras, is preparing a catalogue of the Arab coins in the Madras Museum. The catalogue on Roman coins of the Museum, by Sri T. G. Aravamuthan, Madras, and the catalogue of the coins of Dowleshwaram hoard by Prof. T. Balakrishnan Nayar, Principal, Presidency College, Madras, will be ready soon for publication by the Museum. The Amaravathi hoard of 7,666, punch-marked coins, on loan from the Andhra Government, for examination are being studied.

Chemical conservation.—The possibilities of using the sea weed *Gracilaria litchenoides* as a molding medium (semi elastic) were investigated and work is also in progress on using a modification of the " Electrolytic process of Restoration " for such of those bronze images as have hard cabeareons material embedded in the corrosion products.

EDUCATIONAL WORK.

Lectures.—The Superintendent, Government Museum, gave a course of lectures on Anthrophology to the students undergoing training for the Diploma in Anthropology of the University of Madras during the year with practical demonstrations. The students were enabled to examine ethnographic materials and prehistoric antiquities in the Museum and were also trained in anthropometry.

The Curator for Zoology delivered a lecture on the exhibits of Comparative Zoology and South Indian Vertebrate Fauna to a batch of B.Sc. Zoology Main students from Pachaiyappa's College, during February 1956.

The Curator of Archæology delivered a lecture on his recent discoveries of ancient and interesting sculptures in such places as Tanjore and Kumbakonam at a meeting of the Archæological Society of South India. He also addressed the members of the Alliance Francaise on South Indian Architecture.

The Curator for Chemical Conservation read a paper on "Scientific methods in Art and Archæology" before the Archæological Society of South India.

The Curator for Anthropology gave a radio talk in English on the Koyas. He also gave two radio talks in Tamil for primary school children, one on the Mundas and the other on the Todas. He contributed an article on "Myths" to the Tamil Encyclopædia.

Facilities for Research Workers, etc.—Zoology.—(1) Miscellaneous specimens of Bivalves and Crustacea were identified by the Curator for the Research Assistant, Ennur Fisheries Biological Station, in connection with her research work on Oyster spats.

(2) Miscellaneous specimens of Crustaceans, Molluscs and Echinoderms were identified by the Curator for the Zoology Department of the Minerva Tutorial College.

(3) The Curator for Zoology identified two specimens of snakes, namely, one of *Oligodon tæniolatus* for the Dean of the College of Indigenous Medicine, and one of *Lycodon aulicus* for the Superintendent of the Madras Zoo. He also identified a specimen of the frog, *Rhachophorus maculatus* for Mr. Ananthakrishnan, Lecturer in Zoology, Loyola College.

(4) Information and references to literature on the Clupeid fish *Hilsa ilsha* were furnished for Mr. V. Doraiswamy, Senior Entomologist, Public Health Department.

(5) Information on the method of control and extermination of snake-infested white-ant nests was furnished for Mrs. Sales, Chesney Hall, Commander-in-Chief Road.

(6) Information regarding the specific identification of the Tubificid worm, *Limnodrilus socialis* was furnished for Dr. Ananthanarayanan of the Stanley Medical College.

(7) Information regarding the method of articulating and mounting a Whale Skeleton was furnished for Mr. J. V. H. Dixitulu, Head of the Fisheries Technology and Navigation Department, Andhra Polytechnic, Kakinada.

(8) Necessary facilities, including apparatus, literature, etc., were provided for Dr. B. Sundara Raj in connection with his research work on Fishes of the family Cyprinidae.

(9) Necessary facilities were provided for two Zoology students from Mysore University for making drawings of structural exhibits such as skulls of reptiles, poison apparatus of snakes, etc.

(10) Messrs. Tron Soot-Ryen, Director of Tromso Museum, Norway, and Charles H. Wells from United King dom were provided with facilities for examining the specimens of Bivalve shells

and Butterflies in the reserve collections of the Museum respectively. The latter was also given information on suitable Butterfly-collecting grounds and seasons in and around the city.

(11) Sri Ali Husain, Zoology attender, Government Arts College, Madras, and Mr. P. M. Matthew, Lecturer in Biology, St. Joseph's College, Darjeeling, were given training in Taxidermy and Museum methods of preservation and mounting of zoological specimens.

(12) Facilities for learning the technique of skinning and stuffing fish were provided for Mr. Iswar Raj, Inspector of Fisheries, Andhra State.

(13) Messrs. K. V. Natarajan and P. V. Bindu Madhava Rao, Demonstrators in Botany and Zoology respectively in the Vivekananda College, Madras, were given information on methods of preservation and display of Zoological specimens for museum purposes.

(14) The Curator assisted by Mr. J. P. Balasingh, Professor of Zoology, Pachaiyappa's College, in properly classifying and arranging the College museum specimens and in identifying many of the molluscan specimens in the departmental museum of the College.

Archæology.—Sri T. N. Subramanian, a scholar in South Indian History, was given facilities to consult the collection of Chola inscriptions in the museum. Information about South Indian sculpture, bronzes, architecture and epigraphy was furnished to a number of persons, both foreign and Indian.

Anthropology.—Facilities were given for the conduct of lecture and demonstration classes for the University students in the Diploma in Anthropology and the students were allowed to examine the anthropological specimens of the museum. Facilities were afforded for the conduct of the University of Madras Practical Examinations for the Diploma in Anthropology at the museum. Facilities for research on the pre-historic antiquities of the museum were afforded to Mr. G. N. Das. Information on research topics was given to Mr. G. S. Duraiswamy Pillai, a Tamil scholar from Tirunelveli. Information on research topics was given to Mr. S. Krishnaswami of the A.I.R., Delhi, regarding musical instruments. Mr. Parthasarathy, a research scholar, was given information regarding shadow play figures. Information on research was given by letter to Mr. Irwin of the Victoria and Albert Museum, London, regarding some trading castes of Madras. Dr. B. Subba Rao of Baroda was given facilities to examine the Foote collection of the museum and a collection of antiquities have been loaned to him. Dr. J. T. Cornelius, Vice-President of the Archæological Society of South India, was afforded facilities to examine the iron age collections of South India in this museum. Sri Govindachari, Research scholar of the Department of Anthropology, was given information on research topics and literature regarding Dermatoglyphics.

Botany.—The practice of affording facilities to research workers and others continued. Among persons helped may be mentioned Sri Ganes Mudaliar, Forest Contractor, Cuttack-3; the Headmaster, D. J. High School, Gobichettipalayam; Sri K. Natarajan of the Vivekananda College, Madras; the Headmaster, S.R. High School, Challapalli, Krishna district; Sri Vedamanickam, Entomologist, Public Health Department; and Sri K. S. Srinivasan, Curator, Industrial Section, Indian Museum, Calcutta.

Geology.—The practice of affording facilities to research workers and others continued. Amidst other beneficiaries, may be mentioned Sri K. Natarajan of the Vivekananda College, Madras; the Headmaster, S.R. High School, Challapalli, Krishna district; and Dr. Cornelius of the Archæological Society of South India.

WORK IN THE GALLERIES.

Zoology.

Additions to the galleries.—The following additions were made to the various galleries in the Zoological Section during the year under review :—

Foreign Animals Gallery.—(1) The skull and hoofs of the Giraffe, accompanied by a glass-bound photograph of the animal; (2) the specimen of the African Love Bird, *Agapornis personata*, received from the Zoo was stuffed, mounted and exhibited in the Macaw Parrot Case.

General Gallery (Comparative Zoology, etc.).—(3) Two caudal spines of the Sting Ray, suitably mounted on a black display board, was exhibited in the case devoted to " Integumentary Structures of Fishes "; (4) fifteen framed enlargements showing various Indian breeds of cattle and poultry were exhibited on painted wooden panels against the wall after suitably re-arranging the adjacent show cases, in two sets, and provided with bold sign boards.

Reptile Gallery.—(5) A half-grown specimen of the brackish water snake, *Cerberus rhynchops*, procured from Adyar, was suitably mounted in a rectangular glass jar and exhibited in the Snake jars shelf along the wall, in the systematic series; (6) a painted wax cast of the above specimen was prepared and exhibited in the sloping case containing wax casts of South Indian snakes in the Introductory series; (7) the specimen of the Diamond-backed Rattle Snake *Crotalus ruber ruber*, received from the Zoo, was suitably mounted in a glass jar and exhibited on a special wooden bracket; (8) the specimen of the Banded Krait, *Bungarus fasciatus*, with broad bright yellow and black bands, received from the Zoo, was suitably mounted in a glass jar and exhibited in the Snake jars shelf along the wall in the systematic series; (9) a painted wax cast of the above specimen was also prepared and exhibited in natural setting in a separate case; (10) the specimen

of the Mobile Tortoise, *Pseudemys floridana mobiliensis*, received from the Zoo, was stuffed, mounted and exhibited in the sloping show case containing Pond Tortoises.

Bird Gallery.—(11) The male and female specimens of the Pink-headed Duck, *Rhodonessa caryophyllacea*, were exhibited in a separate show case on a specially prepared pedestal; (12) the male specimen of the Brahminy Duck (*Casarca ferruginea*) received from the Zoo, was stuffed, mounted and exhibited along with the existing female specimen in the Duck systematic case; (13) eighteen framed coloured plates of various species of Indian ducks and other birds and one photograph showing the feeding of the sacred vultures at Tirukazhukunram were exhibited, after thorough renovation and varnishing of the frames.

Mammal Gallery.—(14) The young, 6-day old specimen of the Spotted Deer, *Axis axis*, procured locally, was stuffed, suitably mounted with preserved and painted grass on modelled ground work and exhibited in the Deer case; (15) a male specimen of the Jungle Cat, *Felis chaus kelaarti*, stuffed and mounted from the skin and skull presented by Lieut.-Col. E. G. Phythian-Adams, was exhibited on a specially prepared pedestal in the Carnivora (*Felidae*) case.

Invertebrate Gallery.—(16) One large brightly coloured shell of *Conus amadis* and one shell of the feather shell, *Pinna aequilatera* were mounted on wooden display boards and exhibited in the shell cases.

Improvements to the galleries.—The following improvements, repairs and renovations were effected in the Zoological Galleries during the year under review :—

Foreign Animals Gallery.—(1) The interiors and background panels of the following cases were painted with pale grey paint for better display so as to conform to the general colour scheme for this gallery. (i) Skull of Hippopotamus; (ii) Platypus; (iii) Gorilla Model; (iv) Macaw Parrot; (v) Kalij Pheasant; (vi) Skull of Giraffe; (vii) Mandarin Duck; (viii) Scaup Duck.

General Gallery (Comparative Zoology, etc.).—(2) The black wooden panels along the wall were repainted pale grey for better display of the framed photographs of breeds of cattle, poultry, etc., and the adjoining show cases were rearranged in a better way; (3) isolated specimens of vibrissae, claws, hoofs, etc., in the Mammalian Integumentary Structures cases were mounted on suitable display boards and exhibited; (4) a permanent teakwood railing was provided for the ornamental tusks of the Indian elephant, in place of the temporary rope fencing which was unsightly; (5) the large skull of the Sperm Whale or Cachalot, which was hitherto placed on the floor, was mounted and exhibited on a suitable solid teakwood pedestal with vertical supports at the back; (6) the skeletons of horse and man were thoroughly cleaned

with Lissopol-N solution and renovated with pale copal varnish. The large pedestal of these skeletons was also thoroughly varnished. The right foot and right hand in the human skeleton were replaced by fresh complete parts obtained from the Madras Medical College, as several of the digital bones were missing in the original right foot and right hand of this skeleton.

Reptile Gallery.—(7) The old and rusty iron rods for holding the Snake jars on their shelves in position, were replaced by newly purchased brass rods of the same thickness for better display; (8) black plywood disply mounts were prepared and put up for the Skeleton of the Cobra and for the various turtle skeletal exhibits in the Turtle-Skeleton sloping case for better display; (9) the interior drill cloth linings of the Lizard Jars wall case and Pond Tortoises sloping case, which were soiled and discoloured, were painted with fresh white distemper for improved display of the specimens; (10) the skins of the Rat Snake (*Ptyas mucosus*) and the Sea Snake (*Hydrophis spiralis*), exhibited high on the walls, and the large glass frames containing them, were thoroughly cleaned, repaired, renovated, repainted, varnished and re-exhibited on the wall. The skin of the Rat Snake which was in a very bad state of preservation, was restored to its original form and colour; (11) the skeleton of the Crocodile and its black display board mounted high on the wall were thoroughly cleaned, varnished, repainted and renovated; (12) the large framed Snake Chart showing "How to tell whether a snake is poisonous or not" was completely redrawn, renovated and re-exhibited with newly printed, bordered labels as the old chart was discoloured. The teakwood frame of the chart was also waxed and varnished.

Bird Gallery.—(13) The habitat group of the Flamingo was thoroughly cleaned, repainted, varnished and renovated, and the feathers of the Flamingoes were touched up with natural colours; (14) strong teakwood background panels were provided for eight large systematic Bird show cases in the place of unsightly glass doors at the back, the interiors and shelves of these cases were painted with pale green paint for better display, and the birds re-exhibited in these cases. The systematic central case containing Herons and Gulls was partitioned in the centre with teakwood panel and the interior of this case painted on both sides with pale green paint, so as to improve the display. The specimens of Gulls and Terns were suitably re-arranged and spaced out so as to prevent overcrowding. The interior of the Peacock case was also painted with pale green paint in conformity with the other cases. The pale green colour scheme for the Bird Gallery show cases was thus completed during the year; (15) distribution maps were prepared, bound with glass and calico and put up for the following exhibits: (i) Great Indian Hornbill; (ii) Sarus Crane; (iii) Great Indian Bustard; (iv) Pink-headed Duck.

Mammal Gallery.—(16) The large Carnivora central case containing exhibits of Canidae and Mastelidae was partitioned in the centre with thick plywood panelling and the entire interior of the case on both sides, including the background panelling, was painted with pale grey paint, so as to improve the display of the exhibits, and to be in conformity with the general pale grey colour scheme for cases in this gallery; (17) the following skeletons were thoroughly cleaned with Lissopol-N solution and coated with pale copal varnish; their wiring was also repaired or replaced wherever necessary, and their wooden pedestals varnished: (i) Indian Elephant; (ii) Antelope; (iii) Diminutive Trotting Bullock; (iv) Sambhar; (v) Sloth Bear; (vi) Hyaena; (vii) Domestic Pig and Skull of Wild Boar; (viii) Dugong; (ix) Dolphin; (18) six picture frames containing photographs of Primates, Carnivores, etc., were renovated and re-exhibited in their proper places on the wall; (19) distribution maps were prepared, bound with glass and calico and put up for the following exhibits: (i) the Indian Chevrotain or Mouse Deer; (ii) Nilgiri Wild Goat; (iii) Fishing Cat; (iv) Jungle Cat; (v) Stripe-necked Mongoose; (vi) Brown Palm Civet; (vii) Indian Marten; (viii) Slender Loris; (ix) Madras Langur; (x) Hanuman Langur.

Invertebrate Gallery.—(20) Display boards for 23 specimens of bivalve shells were renovated and varnished, and loose and detached lables for about 20 shell exhibits were secured firmly with glass strips and celluloid cement; (21) two exhibition boxes of moths in the insects case were re-lined with black cardboard and the specimens remounted thereon for better display, and one exhibition box of moths in the same case, which had a discoloured lining, was re-lined with clean white cardboard and re-exhibited; (22) an old and discoloured diagram of *Eurypterus fischeri* was redrawn with fresh Indian ink, re-bound and exhibited in the Arachnida case; (23) the delicate specimens of silk thread, silk cloth, spun silk, etc., in two sloping cases were properly mounted on specially prepared plywood boards, wrapped up with thin transparent alkathene sheets and re-exhibited in these cases for better preservation and display; the various samples of cocoons were suitably mounted in glass-topped boxes and re-exhibited. The entire interiors of these two cases were painted with pale cream-coloured paint so as to render the display more attractive; (24) the specimen of the Spiny Lobster with its various parts labelled, illustrating external morphology of Crustacea, which was found to be slightly damaged, was completely repaired, renovated and re-exhibited; (25) the five large central cases containing exhibits of Insecta, Arachnida and Crustacea in which display was hitherto poor owing to lack of proper central backgrounds, were provided with thick plywood central partitions which were painted pale cream colour so as to provide a suitable background for the exhibits. This has considerably improved the appearance of the cases as well as that of the entire gallery.

Fish Gallery.—(26) The back glass panes of ten fish skeleton wall cases were painted black so as to provide a suitable contrasting background for the white skeletons and to improve the display thereby; (27) the background glass panes and the interior base planks of the two large cases containing *Thynnus macropterus* and *Barbus tor* and the interiors of the Giant Perch, Eagle Ray and twelve other fish skeleton central cases fixed to sloping show cases were painted pale blue in conformity with the general colour scheme for show cases in this gallery and to improve the display. After the background painting was completed the central cases were also suitably re-arranged so as to improve the general appearance of the gallery and to provide more moving space for the visitors in this gallery; (23) the work of cataloguing and card-indexing the gallery specimens was continued during the year. The routine weekly checking of the galleries by the Curator, dusting of interiors of show cases, cleaning of glass panes, provision of naphthalene, replacement of broken glass panes, rectifying minor defects, re-filling, bladdering and painting of gallery spirit specimen jars and provision of lysol and camphor and powdered naphthalene for the gallery insect cabinets and exhibition boxes were continued during the year as usual.

Labelling.—(1) Descriptive labels were prepared, printed, glass-bound and put up for the following exhibits: (i) Cocoanut Crab; (ii) Rattle Snake; (iii) Pink-headed Duck; (iv) comparative display of Birds' eggs; (2) about 47 fresh labels were printed and put up for the various specimens of Lamellibranch shell exhibits in the Invertebrate Gallery; (3) six newly printed, glass-bound labels were provided for the various star-fish exhibits in the Echinoderm cases in the Invertebrate Gallery; (4) twenty-three fresh labels were printed and pasted up for the old Snake Chart showing how to distinguish poisonous and non-poisonous snakes : (5) about 120 new Tamil labels were prepared, bound with glass and calico and put up for the various specimens of fishes in the fish gallery sloping cases and vertical spirit-specimens show case; (6) four bold Tamil sign boards were painted and put up for the large sharks, rays, etc., mounted on the wall in the Fish Gallery; (7) about two dozen small, painted zinc labels for the fins and external parts of fishes in the General Introductory cases in the Fish Gallery were replaced by newly painted labels as the old ones were illegible; (8) fresh black wooden sign boards were prepared and fixed up for the Pink-headed Duck case, Giraffe Skull case and for the photographs of Indian breeds of Cattle and Poultry, (9) the index sign boards indicating the names of the Orders of Birds in the systematic show cases in the Bird Gallery were repainted with fresh white paint as the old boards were discoloured and flaking off; (10) the wooden lables for the skins of the Rat Snake and the Sea Snake mounted in frames on the wall were repainted with fresh white paint while renovating the skins; (11) printed labels in English and hand-painted labels in Tamil were prepared, bound with glass and calico

and put up for the newly added specimens of the Brahminy Duck, Jungle Cat and young of the Spotted Deer.

Preservation of reserve collections.—The Curator proceeded systematically with the thorough cleaning, and replenishing with fresh rectified spirit or formalin (as the case might be) of the large number of specimen bottles and jars stored in the reserve collection almirahs. Fresh rubber washers were provided for several of the kilner jars in which the old washers had perished. The specimen bottles in sixteen reserve collection almirahs containing specimens of Crustacea, Insecta, Myriopoda, Mollusca, Annelida, Minor Phyla, Fishes, Amphibia, Reptilia, Mammalia and miscellaneous recent collections were thus personally attended to by the Curator. In addition to this the Curator re-labelled with fresh Indian ink labels about 440 reserve collection specimen jars of Mollusca and miscellaneous groups as the old labels were soiled and in danger of becoming illegible. The system of sealing up the almirahs containing spirit specimens was continued during the year for greater security and a careful record of the presevatory treatment of the reserve collection bottles was kept in a special register maintained for the purpose. The Curator also re-labelled all the reserve collection boxes of dry specimens of corals stored in the gallery drawers and cupboards wherever the old labels were moth-eaten. The cabinet-drawers containing reserve collections of insects were systematically provided with lysol and camphor solution and powdered napthalene and all the drawers of the Hymenoptera Insect Cabinet in the Students' room were entirely re-lined with fresh white paper as the old linings were soiled and discoloured.

ANTHROPOLOGY.

Additions to galleries.—Photographic enlargements representing classical musical instruments depicted in ancient sculptures were prepared and three of them exhibited in the musical instruments gallery along with their modern representative types of instruments.

Maps representing the regions of South India inhabited by the tribal populations were prepared and exhibited in the tribal cases in the Ethnology gallery. These maps give an idea of the regional distribution of the Todas, Kotas, Badagas, Malasars, Chenchus, Mannans, Kanikars, Savaras, Khonds and Lambadis.

A plaster cast of a Godaba girl's head, fitted to the torso, with the tribal ornaments and drapery, was added to the tribal exhibits.

Improvements to galleries.—Six new cupboard cases to store the reserve collections of pre-historic antiquities were added to the sloping cases in the Adichanallur gallery.

Sixteen sloping cases in the Adichanallur gallery had the cloth lining inside painted over with distemper.

Labelling.—The entire set of labels explanatory of the exhibits in the Mohenjo Daro and Harappa gallery of the museum were found to be faded and were therefore completely removed and renewed during the year.

The entire set of labels explanatory of the exhibits representative of Savara musical instruments and ornaments were also renewed by means of duplicate fresh labels which were bound and exhibited.

Preservation.—Routine preservation of the specimens of the anthropological exhibits in the galleries and in the reserve collections were carried out this year as usual. This included the cleaning, dusting and replenishing with naphthalene of all the collections concerned. The new ethnographic accessions were given wax and turpentine treatment wherever necessary. The leather shadow-play figures and the leather parts of the musical instruments were given spirit and castor oil treatment for preservation.

BOTANY.

Improvements to galleries.—The large exhibits of rosewood and teakwood were provided with much-needed prominent labels.

Labelling and preservation.—One attractive toadstool, collected in the Museum compound, was preserved with colour. Two newly-acquired specimens of *Rauwolfia serpentina* were preserved on herbarium sheets. Ten newly-acquired herbarium specimens of the tea plant were poisoned; and 30 herbarium specimens in the reserve collections were re-poisoned. The sheets of 15 reserve berbarium specimens were renewed. Twenty-six old colour-pictures of different plants were subjected to fumigation. Twenty-six specimens, three photographs and one chart were neatly mounted for display, pertaining chiefly to the sandalwood and tea industries. Sixteen herbarium specimens in the reserve collections had to be condemned. The working model of cross-pollination was renovated twice in the year. Two photographs in the Ecology galleries and three exhibits of herbarium specimens and one colour-picture in the systematic Botany galleries were renovated. Three exhibits of edible sea-weeds were withdrawn from the Economic Products galleries for renovation.

Twenty-six labels were drafted for describing the individual specimens and groups of specimens. Twenty-four herbarium specimens, inclusive of the newly-acquired *Rauwolfia serpentina* and *Camellia thea* were neatly labelled. Seventeen labels were printed for the tea industry series. Two labels were painted for the large exhibits of teakwood and rosewood in the Botany galleries. All the new labels were provided, to the extent possible, with translations in Tamil and Telugu.

GEOLOGY.

Addition to galleries.—The specimens of ferruginous concrete and granite gneiss, collected by the Curator during his botanical tours, and one coloured chart of geological column were exhibited in the galleries.

Improvements to galleries.—The exhibit, illustrating fluorescence, was rendered more stable. Nine table-cases in the middle of the galleries were fitted up with double-faced index labels.

Labelling and preservation.—Sixty-six glass industry specimens were mounted for display. The specimens of ferruginous concretion and granite gneiss were also neatly mounted. Four exhibits of permo-carboniferous fossils were renovated. Five exhibits relating to the saltpetre industry were withdrawn for renovation.

Eighty labels were drafted for describing the individual specimens and group of specimens. Five descriptive labels were neatly written out for five sets of glass industry specimens. Eighty-six lables were printed for the individual specimens of minerals, etc., which were chiefly of the glass industry series. Sixty-one labels belonging to the mineral series were neatly mounted. Thirty-four index labels were painted for the show-cases in the Geology galleries, 9 of them with two faces. The task of renewal of the age-old, brittle labels of the Geology Index galleries was taken up; and 187 new labels were printed for the purpose, of which 176 were subtituted in the galleries.

All the new labels were provided, to the extent possible, with Tamil and Telugu translations.

ARCHAEOLOGY.

Improvements to galleries.—The show-cases containing the metalware articles were distempered. The back-ground cloth in a number of show-cases in the metal images gallery was re-fixed properly as it had come off.

Labelling.—Forty labels of the metal images gallery were re-bound and exhibited; the labels for the North-Indian sculptures were renewed; twenty-five labels for the Hindu sculptures were renewed. The accession numbers on the stone sculptures were re-painted.

Preservation.—Seventeen metal images which had developed white spots on them were cleaned in the gallery itself. The terracottas from Mathura and Pondicherry were dusted and preserved properly. The copper-plate grants which had the coating of grease were cleaned and preserved. Besides, 31 metal images and nine wooden articles were sent to the Chemical Conservation section for treatment and cleaning. Of these 38 have been returned to the section, the remaining items still undergoing treatment.

RESTORATION AND PRESERVATION DONE IN THE CHEMICAL CONSERVATION SECTION.

During the period under review fourteen ancient bronze images were electrolytically restored and preservative coatings given. The heights of the images varied from one foot to two feet eight inches and the restoration included treatment of accessory pieces like 'Prabha' and 'Jata' separately. Seventy-five copper coins were chemically treated by alkaline Rochelle salt to remove corrosion products and were restored to their original condition. Sixty-nine lead coins were chemically restored by dilute acetic acid.

Two batches of school teachers were given instructions in the various chemical methods employed in the restoration of museum objects. Lectures and demonstrations were also given on the same subject to a group of students from Baroda University who had come for a course of Museology.

PHOTOGRAPHIC WORK.

Zoology.—Nine photographs showing processes in Museum Technique (such as preserving and mounting of snakes, tortoises, birds, etc., two of the Cobra and Russell's Viper Dioramas in the Ecological Section of the Zoology gallery, one of the newly added Wild Cat and one of the recently acquired male specimen of the Brahminy Duck received from the Madras Zoo were taken and the prints were added to the Zoology Sectional Album. An old photograph of a Vulture was renovated, framed and added to the Bird gallery.

Numismatics.—During the year, eight half-size photographs, two of select South Indian coins and six photographs of Arab gold and silver coins and five quarter-size photographs of Satavahana, Gupta and Pandyan coins were prepared.

Anthropology.—Forty-two photographs were made during the year mainly during the tour of the Attapady valley in Malabar district. The photographs include Mudugas and Irulas who are the principal tribal peoples inhabiting the hills and the funerary sites of the Mudugas. Other photographs represent subjects of village study in Rankhandi U.P.

Archæology.—During the year, one hundred and forty-nine half-size negatives and one hundred and thirty-six quarter-size negatives were prepared.

Botany.—Five photographs of different views and a cross-section of an abnormal fruit of *Carica papaya,* and one photograph of *Actiniopteris,* were added.

PLANS FOR THE YEAR 1956–57.

Zoology.—Apart from carrying out the routine items of work involved in maintaining the galleries and reserve collections in good condition, it is proposed to execute the following plans during the year 1956–57, under the various heads :—

(1) *Additions to the collections.*—Collecting more specimens of insects and mammals for the gallery and more bird skins for enriching the study collection, of which a start was made during 1954–55.

(2) *Work in the galleries*—(*a*) *Additions to the galleries.*—Addition of mounted specimens of tiger, wolf, wild boar, civet cat and black buck to the Mammal gallery and more specimens of shells, butterflies, etc., to the Invertebrate gallery.

(*b*) *Improvements to the galleries.*—(i) Extending the electrification to the Bird and Mammal galleries and providing dark blue curtains for all the windows in these galleries to avoid glare which affects the specimens adversely.

(ii) Providing suitable teakwood background panels for the Giant Squirrel and Flying Fox cases and extending the pale grey colour scheme for show case interiors to other cases in the Mammal gallery.

(iii) Conversion of a few of the existing habitat groups in the Bird gallery into regular illuminated Dioramas and introducing Murals painted on canvas in this gallery.

(iv) Continuing repairs and renovations to snake skins, skeletons and gallery specimens of birds and mammals.

(*c*) *Labelling.*—Extending vernacular labelling to more exhibits and renovating old and defaced labels in the Invertebrate, Fish and Mammal galleries. Providing more descriptive labels in the Bird and Invertebrate galleries.

(*d*) *Preservation of reserve collections.*—Continuing the re-filling, re-washering and re-labelling of reserve collections, specimen jars, re-arranging, sorting and identifying the specimens in the miscellaneous and recent collections almirahs, commencing the cataloguing and card-indexing of reserve collections, and continuing the lysol and camphor and powdered naphthalene preservative treatment for insect cabinets.

(3) (*a*) *Research.*—Continuing systematic work on South Indian Land and Freshwater Molluscs.

(*b*) *Publications.*—Getting the following three Papers published as Museum Bulletins in the Natural History series :—

(i) Cirripedia of the Madras Coast by Dr. A. Daniel.

(ii) Scaphopoda, Pelecypoda and Cephalopoda of Krusadai Island by Dr. S. T. Satyamurty, and

(iii) Amphipoda of the Madras Coast by Sri K. Nagappan Nair.

(4) *Educational services.*—Continuing the existing educational services such as conducting demonstrations, special exhibitions, practical training courses in Museum Technique for school teachers and rendering facilities for research workers.

(5) *Photographic work.*—Adding photographs of selected exhibits of Birds and Mammals to the Zoology Sectional Album.

(6) *Tours.*—Undertaking collecting tours to neighbouring scrub jungles and to Tada for collecting fresh birds skins.

Botany.—Efforts will be made to acquire a few more photographic illustrations for the tea industry series.

Specimens illustrative of the sandalwood industry, as well as the newly acquired specimens of the tea industry, will be added to the exhibits in the Economic Products galleries.

It is hoped to organize a sub-section of sandalwood industry in the Economic Products galleries. Three withdrawn exhibits of edible sea-weeds will be renovated and re-exhibited. The research work on ferns will be continued.

Geology.—Minerals with radio-active elements will be exhibited in the galleries. A better illustration of the glass industry will be displayed. Five (withdrawn) exhibits of the saltpetre industry will be renovated and re-exhibited. A special exhibition will be conducted.

Archæology.—The pending items of treasure-trove and the wood-carvings for Perur will be added to the collections. A few interesting ancient temple utensils and a few important wood-carvings from Kalaiyarkoil will be added to the metalware gallery and wood-carving section respectively. Refixing the cloth in the remaining show-cases in the metal images gallery will be done. The present improvised show case made up of two wall show cases will be dismantled and each provided with perspex. The latter will be used for exhibiting a few interesting recent accessions. It is proposed to provide dates of specimens of sculptures and bronzes in the labels wherever possible. Providing general labels for the metalware, wood-carving, Goli and ivory galleries. Sending up further groups of metal images, wood-carvings, etc., which are in need of treatment to the chemical section. Finalising the work on Jain sculptures and continuing the study of the copper-plate grants and completing if possible the study of South Indian bronzes. Printing off of the " Early Eastern Chalukyan sculptures " " and the Gopuram of Tiruvannamalai ". Putting up a special exhibition of rare stone sculptures and metal images acquired recently.

Anthropology.—The reorganization of the anthropological galleries is under consideration. Exhibition of the newly acquired ethnographic materials of the tribal peoples of Bihar and Assam is proposed. The preparation of models of the busts of some typical South Indian aboriginal tribes is under consideration. A beginning has been made in this direction in getting a plaster cast bust of a Gadaba woman made for the Ethnology gallery. This is to be continued for the other tribal exhibit cases such as Toda, Kota, Khond, Savara, Malasar, Chenchu, etc., as part of the Second Five-Year Plan of the development of the anthropological

secition of this museum. The routine preservation and collection of specimens will be continued along present lines. Facilities for research, educational activities, and exchanges with foreign institutions will continue along present lines.

Numismatics.—The work of transferring the coins from the Accession to the Stock Register will be continued. A study of South Indian Numismatics and the preparation of a catalogue of South Indian coins in the Museum will be taken up during the year. Attempts will be made to secure such coins which are not found in the coin cabinet of the Museum.

GOVERNMENT MUSEUM, MADRAS, A. AIYAPPAN,
9th *June* 1956. *Superintendent.*

When winter comes. (Bronze). By Sri D. P. Roy Chowdhury.

II

ADMINISTRATION REPORT OF THE NATIONAL ART GALLERY, MADRAS.

During this year, a number of very distinguished persons and delegations visited the National Art Gallery. Among them were Mr. Mohan Singh Mehta, Ambassador-designate for India in Switzerland; Mr. Shirley Corea, Minister of Commerce, Trade and Fisheries, Ceylon; Mr. H. R. F. Khilmani, I.F.S., Indian High Commissioner, Colombo; Sri N. Datta Majumdar, Director, Department of Anthropology, Government of India; Mr. Charles Russell, Chairman—Emeritus Education Division, the American Museum of Natural History, New York City, New York; Mr. Waryam Singh, I.P., Commandant, Central Police Training College, Alair; the Ambassador of Czechoslovakia in India; Srimathi Ranu Mukerjee, President, Arts Academy, Calcutta and Trustee of the Indian Museum, Calcutta; Sri Nabakrushna Chaudhuri, Chief Minister of Orissa, Orissa; Mahendra Bir Vikram Sha and Lakshmi Devi, King and Queen of Nepal; Mr. Grayson Kirk, President, Columbia University, New York; Madame Soong Ching Ling, Vice-Chairman of the Standing Committee of National Peoples Congress of China; Mr. Tu, Commercial Consul, China; Mr. P. U. Bond, Manager, Australian National Airways, Sydney; Mr. E. W. Marker, Adviser to Government of India on Company Law (formerly Under Secretary, Board of Trade), United Kingdom; and the Polish delegation.

The following are the acquisitions during the year :—

(1) " When Winter Comes " (bronze), a sculpture by Devi Prasad Roy Chowdhury (height 1′ 3″; breadth 2′ 11″; width 15½″).

(2) " Boats on Canal ", painting in oils by Sri K. C. S. Paniker (length 3′ 3¾″; height 2′ 3″). Purchased.

—Accession No. 1166/56.

(3) " At the Station " painting in oils by Sri P. K. Prabhakar (length 2′ 2¾″; height 1′ 8½″). Purchased.

—Accession No. 1167/56.

(4) " Mountain Range " painting in oils by Sri V. D. Govindaraj (length 2′ 7½″; height 1′ 6½″). Purchased.

—Accession No. 1168/56.

(5) " Spring ", painting in water colour by Mr. Bandre (length 1′ 9″; height 1′ 3″). Purchased.

—Accession No. 1169/56.

(6) " Buddha and his disciples " painting in water colour, by Sri R. N. Chakravarti (length 7½″; breadth 10¾″).

—Accession No. 1170/56.

We continued to receive copies of the art journal " Connoisseur " from the British Council this year also.

The number of visitors totalled to 66,361 during this year as against 73,323 visitors in 1954–55, the daily average number of visitors during this year being 166.

A few opinions recorded by very distinguished visitors to the National Art Gallery are appended below to show its increasing popularity as well as its position among the institutions of its kind :—

(1) Mr. S. C. Shirley Corea, Minister of Commerce, Trade and Fisheries, Ceylon—

" I consider myself lucky that I was able to see the marvellous bronzes. The officials were extremely kind and courteous to our party."

(2) Mr. Charles Russell, Chairman—Emeritus Education Division, The American Museum of Natural History, New York City, New York—

" It is great education to see the works of this Museum and a great pleasure to take away some of its strength and philosophy."

NATIONAL ART GALLERY, A. AIYAPPAN,
PANTHEON ROAD, MADRAS-8, *Superintendent.*
9th June 1956.

III

ADMINISTRATION REPORT OF THE GOVERNMENT MUSEUM, PUDUKKOTTAI.

GENERAL.

Administration.—I was in charge of the museum as the Curator assisted by my Technical Assistant, and the Taxidermist.

Museum Survey Committee.—The committee appointed by the Government of India inspected the Museum on Monday, the 19th December 1955. I took the members of the committee round the museum and acquainted them with the work done in the sections. As the present Museum buildings located two miles away from the town are by no means suitable for the purpose, the committee inspected the old Palace buildings in Pudukkottai with a view to secure them for the Museum. The committee left in the evening for Tiruchirappalli.

Participation in the Art Exhibition at Tanjore.—Though the Tanjore Art Gallery have been holding exhibitions from 1953 it was only this year that this Museum at the request of the committee of management, and with the permission kindly accorded by Government took part in the exhibition. Select bronzes and photographs from the archæological section, and arms and armour from the ethnological section were exhibited. The exhibition which was open from 14th April to 10th May 1955 was very popular. A certificate of merits was awarded to this Museum.

Extra-mural activities and assistance to educational institutions.—On 17th February 1956, I addressed in Tamil the students of the Board High School at Tirugokarnam at the valedictory meeting of the Science Association on "Organic Evolution". The usual assistance to schools in and around Pudukkottai in starting 'School museums' was given. The masters and pupils from educational institutions are encouraged to visit the Museum by my associating myself very closely and frequently with the activities of their associations, and when they visit the Museum I take them round, and interest them in the sections.

Visitors.—The total number of visitors was 125,773 with the daily average of 449 as against 121,769 with the daily average of 433 last year. The percentage of literate visitors was 28·04 as against 27·50 last year. The Museum was open to the public for 280 days while last year it was open for 281 days.

The location of this Museum at two miles from the town has been a handicap to the visitors. To add the havoc caused by the cyclone on the night of the 30th November 1955, and the continuous heavy downpour of rain on the succeeding days had told considerably on the visitors. In spite of these it is really gratifying to note that the total number of visitors including the literate and

the daily average are greater than last year which is a sign that the museum has become very popular in Pudukkottai and its neighbouring districts.

Galleries, buildings and gardens.—The old show cases were repaired, and varnished including those damaged by the cyclone. The interior of the show-cases in the Zoology-section was painted in the natural colour to match the exhibits in them. Five new show-cases for the Zoology Section, one for the Arms and Armour gallery, and two for the Art gallery were made. There was a complete rearrangement of the galleries after the cyclonic havoc. The exhibits were cleaned, and the old and useless were removed, and replaced by fresh exhibits from the reserve collections. All the galleries were provided with bilingual (English and Tamil) labels for the exhibits, and sign-boards. Large wooden boxes for placing naphthalene balls inside the show-cases were made. The preservative solutions were renewed wherever necessary. All the sections presented a better and attractive appearance.

The damage caused to the buildings by the cyclone was fortunately not much. The annual petty repairs were not done as an estimate for Rs. 7,500 for effecting special repairs prepared by the Public Works Department, was awaiting sanction of the Government.

The gardens were not much affected by the cyclone and the rains. A few fruit plants due to knee-deep of water standing for over a week followed by lack of adequate drainage facilities had died; and some coconut and plantain trees were uprooted by the gale. These will be replaced by fresh ones during the ensuing 'Vanamahotsava'.

WORK IN THE SECTIONS.

Zoology.—Additions to the galleries—Reptile gallery.—Two specimens of the 'Binocellate Cobra' (Naja naja), an adult and young, were displayed with their hoods well raised. A Chamælon-snake (*Tropidonotus stolatus*), and a Pit Viper also formed the other additions to the 'Snake gallery'.

A Chamæleon (*Chamæleon calcaratus*) with its tongue fully extended was another interesting addition.

The young one of a monitor lizard (*Varanus bengalensis*) was displayed by the side of the adult.

A golden yellow 'perch-fish' was exhibited in the 'Fish gallery'. The skull of the 'Palm-Civet' or 'Toddy-Cat' (*Paradoxurus niger*) and that of the 'Indian jackal' (*Canis aureus*) were added to the cabinet containing the skulls of some mammals in the 'Skeletal gallery of mammals'.

In the Invertebrate galleries a large Centipede (Scolopendra *subspinipes*) and a large 'Bird Spider' (*Avacularida Sp.*) were added to the 'Arthropod gallery'.

In the Entomology gallery two specimens of the Painted grass-hopper on *Calotropis gigantea* (Madar) *Pœcilocerus pictus* were added to the Orthoptera cabinet. A specimen of the 'Palm beetle' (Oryotes *rhinoceros*-Dynastidæ) and another of the Mango-borer beetle (Batocera *rubus*-Cerambycidæ) were exhibited in the Coleoptera cabinet.

Improvements to the galleries.—A separate show-case to display a young Tiger-shark was made. Another show-case for exhibiting the large specimen of 'Ant-gall' caused by red ants on mango trees was made for an attractive display of the exhibit. Three show-cases to house the skull, lower jaw with its grinding teeth, and the feet of an elephant were also made with the inside painted attractively. The inside of the show-cases in the Birds gallery were painted light green and those in the Fish gallery light or sea-blue to present a natural background. So were the inside of the cases in the Invertebrate galleries painted in the respective natural colours. Wooden boxes each holding twelve naphthalene balls were provided for the show-cases. There was a thorough cleaning of the galleries, and replenishing the specimen jars with fresh preservative solutions. Large sign-boards replacing the old small ones were provided in English and Tamil for the gallery containing the 'Sharks'. The tail of the Sting-ray (*Trygon sephen*) was separately and prominently displayed by the side of the adult.

Botany.—The old and useless specimens dealing with the external morphology of flowering plants such as the modifications in roots and stems and samaroid fruits were replaced by fresh ones. All the exhibits were labelled bilingually. The show-cases were cleaned, and their inside were painted attractively. Photographic illustrations were displayed by the side of the specimens.

Geology.—The unidentified minerals in the general collection were identified, and labelled in Indian ink. The fossil specimens got near Ariyalur in Tiruchirappalli district were identified, and exhibited separately. The labelling of the chief minerals of Pudukkottai territory was finished.

Agriculture.—Wall posters and illustrated charts dealing with the various irrigation devices, and 'Grow more food campaign' kindly presented by the District Agricultural Officer, Tiruchirappalli, were attractively exhibited. The old and useless samples of seeds including the 'green manure' seeds, manures and fertilisers were replaced by fresh specimens from the reserve stock. All the wooden models of ploughs, harrows, cultivators, irrigation machinery and harvesting tools were cleaned, and varnished and labelled bilingually. Photographic illustrations relating to the common water-lifts were also added. Stands for displaying the ploughs

were made, and the models of country wooden plough and mould-board iron plough were mounted, and displayed prominently. A fairly large and attractive mhote scooped from the trunk of a palmyrah tree (*Borassus flabellifer*) got from Poovalakkudi village in Tirumayam taluk was mounted on a wooden tripod stand specially designed for it. The specimens of timber used in South Indian Agriculture for the manufacture of tools and implements and carts were provided with zinc labels coated black with the letters written in white enamel.

The mycology wing containing the herbarium specimens dealing with the fungus diseases on some of the important South Indian crops was reorganized. The show-cases were cleaned, and their inside painted light green. The specimens were remounted, and labelled bilingually. Charts with the bromide enlargements of these fungoid diseases were displayed on the walls by the side of the cabinet containing the specimens. This section is becoming very popular attracting visitors largely from the rural areas.

Art and Industries.—This section was improved considerably during the year. Show-cases for displaying the model of a palanquin, the toddy tapper's box and a chariot made of paddy grains were provided. The wood carvings of Pudukkottai of 18 century A.D. got from the Kalyanamantapam of the old Palace in Pudukkottai were cleaned, and varnished and labelled. A large sign-board for the gallery was put up. The wing containing the Tiruvappur textile samples and that having the Sellukudi woollen fabrics were rearranged with photographic illustrations added. All the show-cases in the section were cleaned, and the exhibits rearranged, and labelled bilingually.

Paintings.—A separate wing for the Cochin Murals comprising collotype reproductions based on photography depicting important scenes of the Ramayana, and dealing with Hindu Mythology was opened. The 40 plates were graciously presented by His Highness the Raja of Pudukkottai.

Two paintings, an 'Iranian Lady' and a 'Hunting Scene'—Iranian frescœs 16-17 century A.D. reconstructed by Sarkis Katchadourian were added. They were presented by the Pudukkottai Darbar.

Nineteen paintings belonging to the Jaipur, the Rajput, the Deccani, the Tanjore and Modern schools were received from the Government Museum, Madras. They were arranged according to their schools, and displayed in the 'Picture Gallery' in the Front hall.

In the same hall were added two more Modern paintings one depicting the 'offering of fruits', and the other 'Hooka smoking'.

An enlargement of the size 18′ × 14′ of the photo of the late Diwan and administrator of the Pudukkottai State, Sir A. Seshia Sastriar, K.C.S.I. (1878–1894), was put up in the Picture gallery in the front hall of the western building by the side of the other

administrators of the State. The enlargement was done in the Madras Museum. Sir A. Seshia Sastriar was the Father of Modern Pudukkottai, and the galaxy of the imposing public buildings in the State are the standing monuments of his genius and work. In short, and in fact, the Pudukkottai State owed everything to him.

Anthropology.—In the Arms and Armour gallery were displayed the knives of different types, Sword Line Boys, Italian Bayonet rifle, 10·35 m.m., Jap Bayonet, Lances of sort, and French rifle 8 m.m. presented by the Ordnance Officer, Allahabad.

A large show-case was made to exhibit the models of modern war appliances.

A wooden stand was made to mount the Dutch cannon with its tail piece.

Two signboards were got up to guide the visitors to the exhibits in the 'Pre-history' gallery. The photographs of the megalithic burial sites in the Pudukkottai State were suitably framed and exhibited with clear and instructive labels. The bangle pieces, and glass beads taken from the burial sites in the State were separately displayed in a wall show-case.

The oil paintings depicting a 'gypsy woman' and 'Kundala Dikshitar' were framed, and hung in the gallery. So were the photographs taken of a 'Kummi dance' by gypsy women, a soothsayer and a 'mendicant' with a bull (Perumal Madu).

Archæology.—A separate gallery to exhibit the Jaina sculptures and bronzes was opened. The photographs taken of the Jaina vestiges in the Pudukkottai State were displayed. In the wing containing the photographic representation of the evolution of the South Indian temples, a model of the Jain rock-cut temple at Sittannavasal was made, and exhibited with printed guide notes in English and Tamil. The photograph of the cave-temple, and its ground plan and elevation were also put up. This, it is hoped, would satisfy such of the visitors who cannot visit Sittannavasal. There are, of course, the photographs of the frescoes at Sittannavasal exhibited conspicuously in the Art gallery. The photographs of the marble sculptures of Amaravati received from the Government Museum, Madras, were put up by the side of the sculptures. So were the photographs of the Nataraja and other bronzes in the Madras Museum exhibited. Photographs of the conserved monuments including the ancient sculptures in the Pudukkottai division were prominently displayed in the 'Sculpture and Bronze' gallery.

The early Cola Nataraja bronze from Tiruvarangulam in Alangudi taluk exhibited near the exist door in the Archæological section was made very attractive and impressive by suitably painting the inside of its case. By its side are kept for comparison a Natasa of the 17th Centuary A.D., and another modern one.

With a view to acquire ancient sculptures lying loose and uncared for in the Pudukkottai territory, I continued my tour started in December 1954 for 13 days in Alangudi taluk, and 21 days in Tirumayam taluk. The whole territory was covered, and all the sculptures were spotted out. I toured for seven days with the photographers from the Madras Museum to photograph the ancient sculptures lying loose in the places I had visited. Arrangements will shortly be made to bring the sculptures to the Museum.

Numismatics.—The 256 coins sent to the Madras Museum for identification were received, and the rearrangement of the 2,118 coins of this Museum: 780 gold, 280 silver, 42 lead, 8 nickel, 997 copper and 11 of cupric alloys, was completed.

Library.—Forty books were added to the library. It is used by the Curator, and his staff, and the interested visitors.

Equipment including furniture and fittings.—Four show-cases to exhibit the skeletal parts of an elephant and its feet were made for Rs. 330. Rupees 200 were spent in repairing and varnishing the show-cases damaged by the cyclone in November 1955.

Staff.—Sri T. Venugopalan was confirmed as Technical Assistant in this Museum with retrospective effect from 12th December 1953. He was on earned leave for thirty days from 3rd June to 2nd July 1955, and for eight days from 5th to 12th November 1955.

Sri G. V. Mohan Naidu, the junior taxidermist of this Museum, was transferred to the Madras Museum. He was relieved on 4th July 1955 by Sri S. George Peter who was undergoing training in Taxidermy in the Madras Museum. He has been placed on probation for two years from 4th July 1955.

Last Grade Service.—Peon Karuppan was on medical leave for six months from 22nd November 1955. M. Satyamurti, the night-watchman was appointed to act in his place. A. Xavier, a candidate recommended by the Sub-Regional Employment Officer, Tiruchirappalli, was appointed temporarily as a night-watchman in the place of M. Satyamurti.

Government were pleased to sanction for another year the posts of the two additional peons ordered for one year in February 1955 and M. Sivasankaran and P. M. Mani, the present incumbents, are continued to act in the places.

Sri V. Gopala Menon, Office Assistant of the Government Museum, Madras, was here on the 26th and 27th August 1955 to inspect the office.

Tours.—I continued my tour started in December 1954 in Alangudi taluk for 13 days, and in Tirumayam taluk for 21 days to locate ancient sculptures lying loose and uncared for in the areas

with a view to acquire them for the Museum. The entire Pudukkottai territory was covered, and the loose sculptures were spotted out. Arrangements will soon be made to bring the sculptures to the Museum. I toured for seven days with the photographers from the Government Museum, Madras, to photograph the antiquities found in the places I had visited.

GOVERNMENT MUSEUM, PUDUKKOTTAI, T. S. SUNDARAM,
30th *April* 1956. *Curator.*

IV

ADMINISTRATION REPORT OF THE CONNEMARA PUBLIC LIBRARY.

EXCHANGES.

The number of institutions sending their journals in exchange for the Museum Bulletin was 205 and the number of different journals received from those institutions was 395. The number of Standard works sent by them was 10. During the year under report, the following institutions were added :—

(i) The Library of the Academy of Science, Leningrad, Russia.

(ii) Philippine Institute of Fishesries Technology, Bureau of Fisheries, Manila, Philippines.

CONNEMARA PUBLIC LIBRARY, MADRAS, K. GOVINDA MENON,
17th *May* 1956. *Librarian.*

APPENDICES RELATING TO GOVERNMENT MUSEUM, MADRAS.

APPENDIX I.

COMPLETE LIST FOR THE YEAR 1955–56 OF TREASURE-TROVE COINS IN THE MADRAS STATE.

Treasure-trove number.	Accession number.	Particulars.	Metal.	Number found.	Number received.	Number acquired.
		A. Acquired by the Museum.				
623	864	Indo-British silver rupees of Victoria and Edward VII.	Silver.	118	118	69
624	862	Three Swami Pagodas of East India Company.	Gold.	8	8	8
626	861	Three Swami Pagodas of English East India Company.	Gold.	7 full coins and 2 cut pieces of coins.	All.	7
629	865	Travancore half-rupee of Balarama Varma.	Silver.	1	1	1.
		B. Not acquired.				
610	..	Twelve small gold coins called "chilly seeds".	Gold.	12	12	..
611	..	Small gold pieces like coins.	Gold.	486	486	..
612	..	Fanams	Gold.	66	66	..
614	..	Small gold Veerarayan coins.	Gold.	92	92	..
625	..	Small gold coins with inscription on both sides.	Gold.	4,361	4,361	..
627	..	Small gold coins	Gold.	23	23	..
628	..	Small gold coins	Gold.	29	29	..
631	..	Small gold panams ..	Gold.	69	69	..

APPENDIX II.

LIST OF TREASURE-TROVE FINDS FROM THE MADRAS STATE—COINS EXCEPTED.

Treasure-trove number.	Accession number.	Particulars.
		A. Acquired.
609	308/55	Vishnu standing on *padmasana* over *bhadrasana*. He wears the usual crown and other ornaments. Bronze with pedestal; height 2′ 2″ and breadth 9¾″. From Inam Enadi, Arantangi taluk, Tanjore district.
611	309/55	Bhudevi standing on *padmasana* over *bhadrasana*. Holds *utpala* in her right hand and the left hand is in *lola*. Wears the usual ornaments. Bronze with pedestal; height 22″ and breadth 7″. From the same place as item No. 308/55.

LIST OF TREASURE-TROVE FINDS FROM THE MADRAS STATE—COINS EXCEPTED—*cont.*

A. Acquired—cont.

Treasure-trove number.	Accession number.	Particulars.
617	310/55	Durga standing erect on the two *asanas*. Wears *karandamakuta*, and other ornaments. Upper hands hold *cakra* and *sankha* while the lower hands are in *varada* and *katyavalambita* poses. Bronze, height 23½″ and breadth 10″. From Andakudi, Nagapattinam taluk, Tanjore district.
617	311/55	Durga. Similar to above but smaller. The *bhadrasana* here is broad. Bronze, height 19″ and breadth 8½″. From the same place as item No. 310/55.
621	312/55	Sieve. The centre is countersunk, beyond which the part is divided into eight sections. Bronze. Diameter 11″. From Thethagudi North, Tiruturaipundi taluk, Tanjore district.
650	313/55	Chandikesvara standing on *padmasana* over *bhadrasanas* in the *tribhanga* pose. Wears *jatamakuta* and other ornaments including *vajrabandha*. No hatchet is present, but hands are in *anjali*. Sirascakra is absent. Bronze, height 23″ and breadth 6½″. From Kurichi, Mayuram taluk, Tanjore district.
618	314/55	Kali seated on *padmasana* over *bhadrasana*. Wears *karandamakuta* with hair shown as flames behind it. There is a five-hooded serpent above it. Four hands with damaru, sula, kapala in three hands, the emblem in the fourth missing. Wears *kucabandha*, *haras* etc. Bronze, height 18½″ and breadth 10½″. From Sholampatti, Mayuram taluk, Tanjore district.
619	315/55	Rama standing on *padmasana* in the tribhanga pose. Wears *kiritamakuta*, *sirascakra*, etc. Hands in the posture of holding bow and arrow. Bronze, height 3½′ and breadth 22″. From Tiruvalangadu, Mayuram taluk, Tanjore district.
619	316/55	Lakshmana. Similar to Rama but smaller in size. *Jatamakuta* is present here. Bronze, height 3′ 1″ and breadth 10″. From the same place as item No. 315/55.
619	317/55	Sita standing on *padmasana* in the *tribhanga* pose. Right hand in *lola* and the left hand in *kataka* poses. Wears *jatamakuta*, *haras* etc. Bronze, height 3′ and breadth 13″. From the same place as item No. 315/55.
619	318/55	Hanuman standing on *padmasana*. Wears *jatamakuta*, *sirascakra* and *udarabandha*. Hands are held in the usual supplicating pose. Bronze, height 2′ 4″ and breadth 15½″. From the same place as item No. 315/55.
619	319/55	Kaliyakrishna dancing on the hoods of Kaliya naga who is shown on *padmasana* over *bhadrasana*. Kaliya with his wife is seen in *anjali* under the hoods of the serpent. Krishna is in the usual pose and wears the usual ornaments. Bronze. Height 2′ 4″ and breadth 15½″. From the same place as item No. 315/55.
619	320/55	Balakrishna dancing with right hand in *abhaya*, left in *danda* and standing with his left leg on *padmasana* over *bmthad* gg/o.31ᶠears *jatamakuta*, etc. Bronze. Heig″a WhabNth*rasa* 12″. From the same place as.ite20dnnd Jev.

LIST OF TREASURE-TROVE FINDS FROM THE MADRAS STATE—COINS EXCEPTED—*cont.*

A. Acquired—cont.

Treasure-trove number. (1)	Accession number. (2)	Particulars. (3)
619	321/55	Vishnu seated in the *sukhasana* pose on *padmasana* over *bhadrasana*. Wears *kirita*, etc. Hands with *cakra*, *sankha* and in *abhaya* and *ahuya varada*. Bronze. height 13½″ and breadth 7½″. From the same place as item No. 315/55.
619	321*a*/54	Sridevi, forming a group with above and in the usual posture and wearing the usual ornaments. Bronze; height 11″ and breadth 4″. From the same place as above item.
619	321b/55	Bhudevi, forming a group with item Nos. 321 and 322 above, and in the usual pose, etc. Bronze; height 11″ and breadth 3½″. From the same place as above item.
619	322/55	Tirumangai Alvar standing on *padmasana* over *bhadrasana* in the *tribanga* pose. Wears as big *kondai*, *pushpa* and *patrakundalas*, etc. The hands are in the posture of holding *khadga* and shield. Bronze; height 2′ and breadth 11″. From the same place as item No. 315/55.
619	323/55	Lamp (big) standing. It has four tiers. It is damaged. Bronze; height 4′ 2″. From the same place as item No. 315/55.
619	324/55	Lamp (big). Similar to above. Bronze; height 4′ 2″. From the same place.
619	325/55	Lamp (small) with two tiers only. The upper wick-tier is damaged. Bronze; height 18″. From the same place as item No. 315/55.
619	326/55	Water vessel of peculiar shape. The bottom is a bit rounded, the shoulder is flat and the month is broad. Damaged at the bottom. Bronze; height 8″ and breadth 7½″. From the same place as No. 315/55.
619	327/55	Water vessel shaped like a bird. Bronze; height 12½″ and length 14″. From the same place as item No. 315/55.
619	328/55	Vishnu standing on *padmasana* over *bhadrasana* to which is attached a *prabha*. *Cakra* held by the figure is missing. The other ornaments and poses are present. The figure is broken and come off from the pedestal. The prabha is also broken. Bronze; with pedestal; height 20″ and breadth 15″. From the same place as item No. 315/55.
619	329/55	Cakra with three flames on its periphery, *simhamukha* on its back and Vishvaksena in *anjali* in front. Bronze; height 18″ and breadth 14½″. From the same place as item No. 315/55.
619	330/55	Pedestal of item No. 329/55 above. Bronze; height 5″.
619	331/55	Incense burnor with lid separate. Both are worked with lotus petal design. Bronze; length 10″ and height 8″. From the same place as item No. 315/55.
619	332/55	Dhupakkal. Bronze; length 7¼″ and breadth 3 3/4″. From the same place as above.
619	333/55	Spoon with its handle broken. Bronze; length 6 3/4″. From the same place as above.
619	334/55	A pair of *padukas*. Bronze; height 2″ and length 3½″ From the same place as above.

LIST OF TREASURE-TROVE FINDS FROM THE MADRAS STATE—
COINS EXCEPTED—*cont.*

A. Acquired—cont.

Treasure-trove number.	Accession number.	Particulars.
619	335/55	A pair of broad cymbals. Bronze; diameter 7″. From the same plaae as above.
619	336/55	Bell with handle separate (big). Bronze; height 12″ with handle. From the same place as above.
619	337/55	Bell with handles separate (small). Bronze; height 10″ with handle.
619	338/55	Cup, bell-shaped, with its stand, which was once fixed to it, now separate. Bronze; height 14″ with stand. From the same place.
619	339/55	Shallow bowl with a double rim and rings, standing on three legs which have seated lions worked on them. Bronze; with legs; height 7″ and diameter 13″. From the same place as above.
619	340/55	Tripod with lions on its legs. Bronze; height 8″ and diameter 7″. From the same place as above.
619	341/55	Tripod with simple legs (one of them broken). Bronze; height 6½″ and diameter 6″. From the same place as above.
619	342/55	Tripod with high and simple legs (one of them broken). Bronze; height 15½″ and diameter 4½″. From the same place as above.
619	343/55	Tripod (smaller). Bronze; height 4 3/4″. From the same place as above.
619	344/55	Broken base of lamp with a line of writing in Tamil characters of about the early Vijayanagar times. Bronze; diameter 4″.

B. Not acquired.

Treasure-trove number. (1)	Particulars. (2)	Metal. (3)	Number found. (4)	Number recovered. (5)	Number acquired. (6)
	Archæology.				
613	Nataraja with Thiruvatchi. Sundaramurti; Appar; Sambandar; Sambandar; Manickavasagar; Vignesvarar; Vignesvarar; Amman; Pratosha Nainar with Amman; Nandi; Peetam with a portion of a leg; Chandigesvaran	Pancha-logam.	13	13	Nil.
	From Mannargudi taluk and town, Tanjore district.				
	Anthropology.				
622	Two silver toe rings; Five pieces of gold; Broken pieces of silver waist band.	Silver; Gold; Silver	10	7	Nil.
	From Vellayur, Attur taluk, Salem district.				

LIST OF TREASURE-TROVE FINDS FROM THE MADRAS STATE COINS EXCEPTED—*cont.*

B. Not acquired—cont.

Treasure-troye number. (1)	Particulars. (2)	Metal. (3)	Number found. (4)	Number recovered. (5)	Number acquired. (6)
	Anthropology—cont.				
630	Periakadukkan (big) ..	All of gold.	2	2	Nil.
	Nagadan (small) ..		2	2	
	Pambu Murugus (small) ..		2	2	
	Maravattaikadukkan (small)		2	2	
	Siriya Kamuluthala (small)		1	1	
	Maravattai Kadukkan (small size).		2	2	
	Nagadan (big size) ..		2	2	
	From Ramanahalli village, Harur taluk, Salem district.				

APPENDIX III.

OTHER NOTABLE ADDITIONS TO THE COLLECTION.

Accession number.	Particulars.
	Anthropology.
20/55	One Japanese rifle, a confiscated firearm from the District Committee, Vellore.
21/55	Naga woman's dress used as loin cloth, by exchange from the Cotton College, Gauhati.
22/55	Naga smoking pipe, by exchange from the Cotton College, Gauhati.
23/55	Khasi hoe, by exchange from the Cotton College, Gauhati.
24/55	Pellet bow used by the Mikir, by exchange from the Cotton College Gauhati.
25/55	Fishing basket model, Assam, by exchange from the Cotton College, Gauhati.
26/55	Valveless automatic fishing trap used by the Garo, by exchange from the Cotton College, Gauhati.
27/55	Single valved automatic fishing trap used by the Mikir, by exchange from the Cotton College, Gauhati.
28/55	Gourd drinking vessel used by the Khasi, by exchange from the Cotton College, Gauhati.
29/55	Garo hoe used in jhuan fields, by exchange from the Cotton College, Gauhati.
30/55	Bamboo betel nut casket used by the Ravas, by exchange from the Cotton College, Gauhati.
31/55	Japi-Assamese Hat, by exchange from the Cotton College, Gauhati.
32/55	Model of Khasi carrying basket, by exchange from the Cotton College, Gauhati.
33/55	Bamboo drinking vessel used by the Mikir, by exchange from the Cotton College, Gauhbti.
1/56	Flint and steel used for making fire by the Mudugas of Attapady.
2/56	Bamboo bow type rat trap used by the Irulas of Attapady.
3/56	Bamboo bow type rat trap used by the Irulas of Attapady.
4/56	Pellet bow of the Asur by exchange from the Department of Anthropelogy, Bihar University, Patna.
5/56	Bow of the Asur by exchange from the Department of Anthropology, Bihar University, Patna.

OTHER NOTABLE ADDITIONS TO THE COLLECTION—*cont.*

Accession number.	Particulars.
	Anthropology—cont.
6/56	Arrow of the Asur, by exchange from the Department of Anthropology, Bihar University, Patna.
7/56	Bamboo comb of the Munda, by exchange from the Department of Anthropology, Bihar University, Patna.
8/56	Bamboo comb of the Munda, by exchange from the Department of Anthropology, Bihar University, Patna.
9/56	Bamboo comb of the Munda, by exchange from the Department of Anthropology, Bihar University, Patna.
10/56	Net used by the Birhor for catching monkeys and rabbits, by exchange from the Department of Anthropology, Bihar University, Patna.
11/56	Gadaba Ektar, stringed musical instrument, purchased.
12/56	Gadaba hat made of bamboo leaves, purchased.
13/56	Gadaba leaf apron worn on back, purchased.
14/56	Bill hook used by Gadabas, purchased.
15/56	Gond drinking vessel used by the Gaeabas, purchased.
1-216/55	Beads of cornelain, chalcedony, greenstone and metal obtained from the excavation of a rock cut tomb in Nadu Kani parambu, Mouriyam desam, Periyapuram amsam, Ponnani taluk, Malabar district.
217-231/55	Trade wind beads of glass five red, five yellow, two blue and three green, dated to about 800—1000 A.D. obtained on exchange basis from Dr. Van der Sleen, Amsterdam, Holland.
	Archaeology.
1153/55	Engraved glass plate with rose design of Steuben glass. (Got in exchange from Corning glass center, U.S.A., for Arikmedu glass beads).
1154/55	Twenty-two children's paintings which were awarded I and II prizes in the 1955 Madras State Children's Art Exhibition conducted by the Museum.
1155/55	Six water colour paintings by Japanese school children. (Got from Government of India, Ministry of Education in exchange for eleven paintings by Madras State School children.)
1156/55	Vishnu (stone) from Veraiyur, Tiruvannamalai taluk, North Arcot district. Height 3′ 10″; breadth 1′ 9″. Standing erect. Wears high kirita and other ornaments. Holds conch and discus in the upper hands while the lower hands are in *varada* and *katyavalambita* poses. There is a halo-like design behind the head.
1157/55	Sridevi (stone) forming a group with the above. Height 3′ 3″; breadth 1′. Stands in the *tribhanga* pose. Wears the usual ornaments and *kucabandha*. Holds a lotus in her left hand.
1158/55	Bhudevi (stone) forming a group with the above. Height 3′ 2″; breadth 1′. Similar to Bhudevi above but without the *Kucabaudha* (Items 1156 1157 and 1158 were got through the Tahsildar of Tiruvannamalai.)
1159/55	"When Winter Comes" (bronze) sculpture by Devi Prasad Roy Chowdhury. Height 1′ 3″; breadth 2′ 11″; width 15½″. Purchased.
1160/55	"Horse" painting on paper in thick tempera. Height 19″; breadth 14½″. Purchased.
1161/55	*Kirita* cover (copper). Height 12¾″; diameter 6½″. Purchased.
1162/55	*Kirita* cover (copper). Height 12¾″; diameter 7¾″. Purchased,
1163/55	Globular crown cover (copper). Height 9½″; diameter 6½″. Purchased.

OTHER NOTABLE ADDITIONS TO THE COLLECTIONS—*con.*

Accession number.	Particulars.
	Archaeology—cont.
1164/55	*Kondai* cover (copper); Height 7½″; diameter of padma 6½″. Purchased.
1165/55	Palanquin in wood with ivory inlay work on it. Length 18″; height 5½″; breadth 11″. Purchased.
1166/56	"Boats on Canal", painting in oils by Sri K. C. S. Paniker, 3′ 3-3/4″; height 2′3″. Purchased.
1167/56	"At the Station" painting in oils by Sri P. K. Prabhakar. Length 2′ 2-3/4″; height 1′ 8½″. Purchased.
1168/56	"Mountain Range" painting in oils by Sri V. D. Govindaraj. Length 2′ 7½″; height 1′ 6½″. Purchased.
1169/56	"Spring" painting in water colour by Mr. Bandre. Length 1′ 9″; height 1′ 3″. Purchased.
1170/56	"Buddha and his disciples" painting in water colour, by Sri R. N. Chakravarti. Length 7½″; breadth 10 3/4″. Purchased.
142/55	Three copper plates strung together to a ring to which is attached a seal showing a boar. The inscription is in Nandinagari and Telugu. It belongs to the time of Krishnadevaraya, dated Saka 1417. It records a grant of a village by king Krishnadevaraya to a Brahmana.
143/55	Similar to above. It belongs to the time of Viranarasimha, dated Saka 1430. It also records a grant of a village to a Brahmana (Nos. 142 and 143 were received from the Collector of Tanjore).
144/56	A set of three copper-plates strung together on a ring which has a small figure of an elephant in the round. The inscription is in Telugu characters and in Sanskrit and Telugu languages. It belongs to the time of Vira Rudra of the Gajapati dynastp dated Saka 1422. It records a grant of lands. Purchased.
145/56	A single copper plate belonging to a large set of which the other leaves are missing. It is written in Tamil characters of about the 9th-10th century A.D., but no information regarding the king or date is available. But as it is said to have been obtained from Tirupparankunram, a suburb of Madura, the whole set might have belonged to the time of a king of the early Pandyan dynasty. Purchased.

Zoology.

1 Rattle snake.

2 Banded Krait.

3 Mobile Tortoise.

4 African love bird.

5 Brahminy Duck (Male).

6 Jungle Cat (Male).

Botany.

Two specimens of *Rauwolfia serpentina.*

Geology.

Seven specimens illustrative of the glass industry.

APPENDIX IV.

VISITORS, STAFF, ETC.

sitors to the Museum—

	1954-55.	1955-56.
Total number of visitors	463,466	624,638
Total number on Sundays	152,549	91,348
Total number on Dvadasi day	8,818	9,057
Attendance on Kannupongal day	47,349	20,327

Staff.—Sri R. Subramanyan, Curator' Chemical Conservation Section rejoined dutp on 14th September 1955 after a year of Research work at the John Hopkins University and the Smithsonian Institution in the United States of America. Sri P. N. Mohandas, Curator, Numismatic Section has been transferred to the Department of Archaeology, Southern Circle, as Custodian of Mahabalipuram monuments on the 29th February 1956 and Kumari R. Vanaja has been appointed as Curator, Numismatic Section, in his place, with effect from 1st March 1956.

Pho ographic work.—The photographer was engaged in taking prints for record and sale to the public. A sum of Rs. 738–0–0 was realized by sale of prints and enlargements as against Rs. 1,184-12-0 during the previous year. During the year under report 517 negatives and 1,916 bromide prints and enlargements were prepared.

Tours.—Under the orders issued in G.O. No. 510, Education, dated 1st April 1955, Superintendent toured to New Delhi to attend a conference on Museums in India. In July 1955, Superintendent toured to Nagarjunakonda to study the sculptures excavated there. In September 1955, he toured to New Delhi to attend a meeting of the Advisory Board on Archaeology as one of its members. In January 1956, the Superintendent inspected the Government Museum at Pudukottai. In the end of January 1956, the Superintendent undertook a tour to the Attapady Valley in Malabar district to study the aboriginal tribes of the area. During November, December and February, the Superintendent toured to New Delhi to attend meetings of the Expert Museum Survey Committee appointed by the Government of India. As a member of the sub-committee to report on important museums in the South, he visited Hyderabad, Bangalore, Trichur, Trivandrum, Pudukkottai and Tanjore.

The Curator for Zoology toured to Ootacamund to acquire a very large number of very rare eggs belonging to the collection of late Mr. C. M. Inglis.

The Curator for Anthropology accompanied the Superintendent on tour to the Attapady Valley to study the social customs of Mudugas and Irulas. He also toured to Amritamangalam near Satyavedu in the Chingleput district to inspect the excavations of the urnfields being conducted there by the Department of Archæology.

The Curator for Botany toured extensively the Chingleput district for study purposes.

The Curator for Archaeology toured to Tanjore, Kumbakonam, Pudukkottai and other areas and to Tiruvannamalai, Panamalai, Singavaram and Tindivanam for study and to take photographs of sculptures and vimanas of temples in connecton with the publication of a Museum Bulletin on Temple Architecture. The Curator also attended the oriental conference held at Chidambaram on duty and read an important paper at the Conference.

The Photographer and his assistant also accompanied the Curator for Archaeology to take the photographs.

The Office Assistant toured to Pudukkottai to check the accounts of the Pudukkottai Museum.

Museum Theatre.—The Museum Theatre was used for 198 engagements during this year, of which 141 were for dramatic performances, etc., and the rest, rehearsals and meetings. A sum of Rs. 5,064 was realized as rent as against Rs. 4,891 in the previous year. A sum of Rs. 324-8-0 has, in addition, been credited to Government as the half-share of the fees for the Caretaker's overtime attendance. Further, the theatre was used free of rent for the following:—(1) a film show organised by the Director of Public Instruction, Madras, (2) a cultural programme by the India-China Friendship Association, Egmore, Madras and (3) Cultural programme by the Indian Council for Child Welfare, Thyagarayanagar, Madras.

APPENDIX V.

LIST OF PHOTO NEGATIVES PREPARED DURING 8955–56.

Negative number.	Size.	Subject.
		Archæological Section.
F. 294 ..	¼	.. Bronzes, Mannargudi, treasure-trove.
F. 295 ..	¼	.. Bronzes, Vaduvur, treasure-trove.
F. 296 ..	¼	.. Nataraja (treasure-trove) from Tambikkunallavankottai, Tanjore district.
F. 297 ..	¼	.. Men and women of Nagarjunakonda.
F. 298 ..	¼	.. Ruined Vihara near a stupa of Nagarjunakonda.
F. 299 ..	¼	.. View of the Krishna near the palace area Nagarjunakonda.
F. 300 ..	¼	.. View of the late ramparts near the village of Nagarjunakonda.
F. 301 ..	¼	.. Auditorium' in front of Hariti temple, recently excavated (1954) Nagarjuna konda.
F. 302 ..	¼	.. Hariti figure (broken) front view.
F. 303 ..	¼	.. Do. back view.
F. 304 ..	¼	.. Temple shrine of Hariti a view.
F. 305 ..	¼	.. Do. another view.
F. 306 ..	¼	.. Casing slabs with Jataka stories, Nagarjunakonda.
F. 307 ..	¼	.. Casing slab with Mandhata Jataka.
F. 308 ..	¼	.. Masonry tower in the palace area at Tanjore.
F. 309 ..	¼	.. Arsenal at Tanjore.
F. 310 ..	¼	.. Facade of Art Gallery.
F. 311 ..	¼	.. Stage within the Art Gallery.
F. 312 ..	¼	.. Facade of hall where bronzes are kept.
F. 313 ..	¼	.. Brahma seated (stone).
F. 314 ..	¼	.. Siva standing (stone).
F. 315 ..	¼	.. Siva seated (stone).
F. 316 ..	¼	.. Ardhanari (stone).
F. 317 ..	¼	.. Gajantaka (stone).
F. 318 ..	¼	.. Close-up of above (stone).
F. 319 ..	¼	.. Dakshinamurti (stone).
F. 320 ..	¼	.. Siva as Virabhadra (stone).
F. 321 ..	¼	.. Parvati seated (stone).
F. 322 ..	¼	.. Close-up of Kalyani Dvarapalaka.
F. 323 ..	¼	.. Tumburu and Narada (stone).
F. 324 ..	¼	.. Chola king and queen.
F. 325 ..	¼	.. A Dansues (stone).
F. 326 ..	¼	.. A saint (stone).
F. 327 ..	¼	.. Dvarapalika (stone).
F. 328 ..	¼	.. Elephant (stone).
F. 329 ..	¼	.. Lion base of pillar (stone).
F. 330 ..	¼	.. Dancer and drummer (stone).

LIST OF PHOTO NEGATIVES PREPARED DURING 1955-56—*cont.*

Nagative number.	Size.	Subject.
		Archæological section—cont.
F. 331 ..	¼	.. Dancing with accompaniment (stone).
F. 332 ..	¼	.. Cakra or wheel (stone).
F. 333 ..	¼	.. Natesa (bronze).
F. 334 ..	¼	.. Lakshmi (bronze).
F. 335 ..	¼	.. Statue of a king (bronze).
F. 336 ..	¼	.. Statue of a noble lady (bronze).
F. 337 ..	¼	.. View of Museum, Pudukkottai.
F. 338 ..	¼	.. Another view of above.
F. 339 ..	¼	.. Office of Curator, Podukkottai Museum.
F. 340 ..	¼	.. Chamunda (stone).
F. 341 ..	¼	.. Jyeshtha.
F. 342 ..	¼	.. Another Jyeshtha.
F. 343 ..	¼	.. Chieftain.
F. 344 ..	¼	.. Yali freize.
F. 345 ..	¼	.. Broken parts of three sculptures.
F. 346 ..	¼	.. Sri cakra.
F. 347 ..	¼	.. Dilapidated gopura.
F. 348 ..	¼	.. Mandapa of temple.
F. 349 ..	¼	.. Dilapidated shrine.
F. 350 ..	¼	.. Temple with sculptures in front.
F. 351 ..	¼	.. Another view of above temple.
F. 352 ..	¼	.. Gopura of temple.
F. 353 ..	¼	.. Ruined temple.
F. 354 ..	¼	.. Shrine with small vimana.
F. 355 ..	¼	.. Lakshmi.
F. 356 ..	¼	.. Lakshmi, Bhu and Narasimha.
F. 357 ..	¼	.. Another view of above things.
F. 358 ..	¼	.. Bhairava, Vishnu, etc.
F. 359 ..	¼	.. Lakshmi.
F. 360 ..	¼	.. Sivalinga.
F. 361 ..	¼	.. Chandesa Jyeshtha, etc.
F. 362 ..	¼	.. Nandi, Subrahmanya, etc.
F. 363 ..	¼	.. Bhairava and Subrahmanya.
F. 364 ..	¼	.. Garuda.
F. 365 ..	¼	.. Surya and other five sculptures.
F. 366 ..	¼	.. Sivaliuga in a mandapa.
F. 367 ..	¼	.. Five or six sculptures and Nandi under a tree.
F. 368 ..	¼	.. Dakshinamurti.
F. 369 ..	¼	.. Lakshmi.
F. 370 ..	¼	.. Same as 367.
F. 371 ..	¼	.. Nandi.
F. 372 ..	¼	.. Varahi, etc.
F. 373 ..	¼	.. Chandesá, Nagaraja, etc.
F. 374 ..	¼	.. Another view of above.
F. 375 ..	¼	.. Ganesa Brahma, etc.
F. 376 ..	¼	.. View of a hill.
F. 377 ..	¼	.. Tirthankara rock carvings.

LIST OF PHOTO NEGATIVES PREPARED DURING 1955–56—*cont.*

Negative number.		Size.	Subject.
			Archæological section—cont.
	F. 378 ..	¼ ..	Another view of above.
	F. 379 ..	¼ ..	Do.
	F. 380 ..	¼ ..	Mutilated Tirthankara.
	F. 381 ..	¼ ..	Thirthankara, etc., under a tree.
	F. 382 ..	¼ ..	Tirthankara (broken).
	F. 383 ..	¼ ..	Tirthankara and Ganesa.
	F. 384 ..	¼ ..	Tiruvalangadu Nataraja in the show-case with some no shadow,
	F. 385 ..	¼ ..	Tiruvalangadu Nataraja in the show-case with a bit of shadow.
	F. 386 ..	¼ ..	Tiruvalangadu Nataraja in the show-case with more shadow.
	F. 387 ..	¼ ..	Tiruvalangadu Nataraja in the show-case with a little more shadow.
	F. 388 ..	¼ ..	Tiruvalangadu Nataraja in the show-case with deep shadow.
	F. 389 ..	¼ ..	Tiruvelangadu Nataraja in the show-case with light from behind. (Selected for post-card printing.)
	F. 390 ..	¼ ..	Tiruvalangadu Nataraja in the show-case with profile.
	F. 391 ..	¼ ..	Tiruvalluvar temple, inner shrine, Mylapore.
	F. 392 ..	¼ ..	Do. front entrance.
	F. 393 ..	¼ ..	Do. another view.
	F. 394 ..	¼ ..	Do. another view.
	F. 395 ..	¼ ..	Do. another view.
	F. 396 ..	¼ ..	Do. another view.
	F. 397 ..	¼ ..	Do. second entrance, with poets of the Sangam of Madura.
	F. 398 ..	¼ ..	Do. Tiruvalluvar image by the side of the trunk of the tree.
	F. 399 ..	¼ ..	Do. Second entrance another view.
	F. 400 ..	¼ ..	Tiruvalluvar and his consort (bronzes).
A. XXX	(8) ..	½ ..	Vrishabhantika (front view), Tiruvenkadu.
	(9) ..	½ ..	Vrishabhantika (back view), Tiruvenkadu.
	(10) ..	½ ..	Parvati, consort of above (front view).
	(11) ..	½ ..	Do. (back view).
	(12) ..	½ ..	Kalyanasundara and Parvati (front view).
	(13) ..	½ ..	Do. (back view).
	(14) ..	½ ..	Mahavishnu and Lakshmi (front view).
	(15) ..	½ ..	Do. (back view).
	(16) ..	½ ..	Bhikshatana (front view).
	(17) ..	½ ..	Do. (back view).
	(18) ..	½ ..	Tripurantaka (front view).
	(19) ..	½ ..	Do. (back view).
	(20) ..	½ ..	Bhairava with eight hands (front view).
	(21) ..	½ ..	Do. (back view).
	(22) ..	½ ..	Tripurantaka and Tripurasundari (back view).

LIST OF PHOTO NEGATIVES PREPARED DURING 1955–56—*cont.*

Negative number.		Size.	Subject.
			Archæological section—cont.
A. XXX.	(23) ..	½	.. Nandisa and consort (back view).
	(24) ..	½	.. Rama, Sita, Lakshmana and Hanuman (front view).
	(25) ..	½	.. Rama, Sita, Lakshmana and Hanuman (back view).
	(26) ..	½	.. Painting of Ravi Varma entitled Kusumavati.
	(27) ..	½	.. Naga with human bust.
	(28) ..	½	.. Natesa from Hemavati.
	(29) ..	½	.. Memorial stone with Canarese inscription.
	(30) ..	½	.. Close view of flying figures on Amaravati Chaitya slab.
	(31) ..	½	.. Ganesa and Bhu Devi (bronze).
	(32) ..	½	.. Parvathi (bronze).
	(33) ..	½	.. Balasubrahmanya dancing (bronze).
	(34) ..	½	.. Three wood carvings showing two women and an ascetic.
	(35) ..	½	.. Sankhanidhi and Padmanidhi (wood).
	(36) ..	½	.. Horseman bracket.
	(37) ..	½	.. A soldier with sword and shield.
	(38) ..	½	.. Gana blowing conch.
	(39) ..	½	.. Gana blowing conch from Kalaiyar koil.
	(40) ..	½	.. Shanmukha on peacock from Kalaiyar koil.
	(41) ..	½	.. Sarasvati (bronze).
	(42) ..	½	.. Brahma seated (stone) front view.
	(43) ..	½	.. Brahma seated (stone) back view.
	(44) ..	½	.. Vishnu standing (stone).
	(45) ..	½	.. Another Vishnu standing (stone).
	(46) ..	½	.. Two seated Vishnus (stone).
	(47) ..	½	.. Mahishamardini and Bhikshatana (stone).
	(48) ..	½	.. Gajalakshmi (stone).
	(49) ..	½	.. Kankalamurti (stone).
	(50) ..	½	.. Seven Rishipatnis (stone).
A. XXXI.	(1) ..	½	.. Five Sivaganas playing musical instruments (stone).
	(2) ..	½	.. Siva and Parvati standing (stone).
	(3) ..	½	.. Siva as Tripurantaka (stone).
	(4) ..	½	.. Dancing Ganesa and Subramanya (stone).
	(5) ..	½	.. Ardhanari and Buddha.
	(6) ..	½	.. Gangadhara and Manmatha and Rati (stone).
	(7) ..	½	.. Dvarapalaka with horn (stone).
	(8) ..	½	.. Dvarapalaka from Kalyani (stone).
	(9) ..	½	.. Brahma Yaksha with consorts (stone).
	(10) ..	½	.. Sivagana aud Tirumangai Alvar (slab).
	(11) ..	½	.. Uma-sahita standing (bronze).
	(12) ..	½	.. Kalyanasundara with Parvati (bronze).
	(13) ..	½	.. Back view of above (bronze).
	(14) ..	½	.. Siva and Uma seated (bronze).

LIST OF PHOTO NEGATIVES PREPARED DURING 1955-56—*cont.*

Negative number.		Size.	Subject.
			Archæological section—cont.
A. XXXI.	(15) ..	½	.. Back view of above (bronze).
	(16) ..	½	.. Somaskanda (bronze).
	(17) ..	½	.. Natesa (bronze).
	(18) ..	½	.. Another Natesa (bronze).
	(19) ..	½	.. Vishnu and two Devis (bronze).
	(20) ..	½	.. Sudarsana cakra with cakrapurusha having 16 hands (bronze).
	(21) ..	½	.. Interior view of Museum at Pudukkottai.
	(22) ..	½	.. Another view inside of Museum at Pudukkottai.
	(23) ..	½	.. Wood work section of Museum at Pudukkottai.
	(24) ..	½	.. Metal images section of Museum at Pudukkottai.
	(25) ..	½	.. Mammalian section of Museum at Pudukkottai.
	(26) ..	½	.. Bhikshatana and Ardhanari (stone).
	(27) ..	½	.. Vinadhara (stone).
	(28) ..	½	.. Jyeshtha (stone).
	(29) ..	½	.. Another Jyeshtha (stone).
	(30) ..	½	.. Subrahmanya (stone).
	(31) ..	½	.. Shanmukha on peacock (stone).
	(32) ..	½	.. Jvaraharesvara (stone).
	(33) ..	½	.. Three bas-relief figures (stone).
	(34) ..	½	.. Tirthankara seated (stone).
	(35) ..	½	.. Another Tirthankara seated (stone).
	(36) ..	½	.. A third one (stone).
	(37) ..	½	.. Another one defaced (stone).
	(38) ..	½	.. Parsvanatha standing (stone).
	(39) ..	½	.. Brahma Yaksha (ston)e.
	(40) ..	½	.. Pushkala consort of above (stone).
	(41) ..	½	.. Surya and Vishnu (bronze)
	(42) ..	½	.. Vishnu and Bhu (bronze).
	(43) ..	½	.. Natesa and Sivakami (bronze).
	(44) ..	½	.. Back view of above (bronze).
	(45) ..	½	.. Another Natesa and Sivakami (bronze).
	(46) ..	½	.. Siva and Parvati as Pradoshamurti (bronze).
	(47) ..	½	.. Siva seated and Ganesa standing (bronze).
	(48) ..	½	.. Somaskanda (bronze).
	(49) ..	½	.. Narasimha getting out the entrails of Hiranyakasipu (bronze).
	(50) ..	½	.. Two devis (bronze).
A. XXXII.	(1) ..	½	.. Sri Devi (bronze).
	(2) ..	½	.. Bhu Devi (bronze).
	(3) ..	½	.. Nandikesvara (bronze).
	(4) ..	½	.. Three dancing Balakrishna (bronze).
	(5) ..	½	.. Appar, Sambandar and Manickkavasakar (bronze).

LIST OF PHOTO NEGATIVES PREPARED DURING 1955–56—*cont.*

Nekative number.	Size.	Subject.
		Archaeological section—cont.
A. XXXII. (6) ..	½	.. Adinatha Jain Tirthankar (bronze.)
(7) ..	½	.. Two Parsvanathas front and back (bronze.)
(8) ..	½	.. Small seated Jina and Standing Tirthankara (bronze.)
(9) ..	½	.. Temple on hillock.
(10) ..	½	.. Nandi of a ruined temple.
(11) ..	½	.. Lakshmi ftanding.
(12) ..	½	.. Sikhivahana subrahmanya and Bhairava.
(13) ..	½	.. Dakshinamurti.
(14) ..	½	.. Nandi, linga, and other sculptures under a tree.
(15) ..	½	.. Narasimha with Sri and Bhu, Lakshmi and Garuda.
(16) ..	½	.. Bhairava, Vishnu and Siva.
(17) ..	½	.. Subrahmanya, Dakshinamurti and an incomplete figure.
(18) ..	½	.. Ganesa, Brahma and Dakshinamurti.
(19) ..	½	.. Jyeshtha, Nagaraja and Chandesa.
(20) ..	½	.. Nagaraja.
(21) ..	½	.. Lakshmi.
(22) ..	½	.. Bhirava.
(23) ..	½	.. Vishnu, Bhairava and other figure.
(24) ..	½	.. Saptamatrikas (a few), etc.
(25) ..	½	.. Brahma standing.
(26) ..	½	.. Tirthankara and Yaksha, etc.
(27) ..	½	.. Tirthankara seated.
(28) ..	½	.. Tirthankara rock carving.
(29) ..	½	.. Another view of above.
(30) ..	½	.. Parsvanatha Jain (stone).
(31) ..	½	.. Seated Mahavira (headless) stone.
(32) ..	½	.. Standing Tirthankara (stone).
(33) ..	½	.. Seated Tirthankara with halo (stone).
(34) ..	½	.. Seated Tirthankara with head broken (stone).
(35) ..	½	.. Seated Tirthankara (stone).
(36) ..	½	.. Seated Tirthankara (complete) (stene).
(37) ..	½	.. Tirthankara standing (complete) (stone).
(38) ..	½	.. Parsvanatha with face erased (stone).
(39) ..	½	.. Parsvanatha broken to left and bottom (stone).
(40) ..	½	.. Tirthankara standing (stone).
(41) ..	½	.. Bust of Tirthankara from South Kanara showing Sri Vatsa (stone).
(42) ..	½	.. Bust of Tirthankara from South India (stone).
(43) ..	½	.. Bust of Tirthankara (stone).
(44) ..	½	.. Head of the Buddha from Vidyadharapuram (stone).
(45) ..	½	.. Buddha (smaller) from Amaravathi bac view (stone).

LIST OF PHOTO NEGATIVES PREPARED DURING 1955–56—*cont.*

Negative number.		Size	Subject.
			Archaeological section—cont.
A. XXXII. —*cont.*	(46) ..	½	.. Buddha (bigger) from Amaravati back view.
	(47) ..	½	.. Buddha from Amaravati, front view (smaller).
	(48) ..	½	.. Buddha from Kuram (stone).
	(49) ..	½	.. Buddha from Tanjore (stone).
	(50) ..	½	.. Chola painting of Tanjore showing Tripurantaka panel.
A. XXXIII.	(1) ..	½	.. Tiruvalluvar (bronze), Mylapore (front view).
	(2) ..	½	.. Tiruvalluvar (bronze). Mylapore (back view).
	(3) ..	½	.. Tiruvalluvar and his consort (bronze), Mylapore.
	(4) ..	½	.. Buddha (stone), Amaravati.
	(5) ..	½	.. Padmapani (stone), Amaravati.
	(6) ..	½	.. Simhanada (stone), Amaravati.
A. VII	(43) ..	¼	.. Sibijataka, Amaravati.
	(44) ..	¼	.. Jivaka's grove, Amaravati.
	(45) ..	¼	.. Surya (stone).
	(46) ..	¼	.. Dakshinamurti (stone).
	(47) ..	¼	.. Vrishabhantika (stone).
	(48) ..	¼	.. Subrahmanya (stone).
	(49) ..	¼	.. Patanjali (stone).
	(50) ..	¼	.. Chola king with his queen (stone).
A. VIII.	(1) ..	¼	.. Tripurantaka with consort (bronze).
	(2)	¼	.. Back view of above (bronze).
	(3) ..	¼	.. Another Tripurantaka with consort (bronze).
	(4) ..	½	.. Back view of above.
	(5) ..	½	.. Another view of above.
	(6) ..	½	.. A unique view of Surya.
	(7) ..	¼	.. A rare Mukhalinga.
	(8) ..	¼	.. A unique yoga Narasimha.
	(9) ..	¼	.. Varahi.
	(10) ..	¼	.. Chamunda.
	(11) ..	¼	.. Vaishnavi.
	(12) ..	¼	.. Indrani.
	(13) ..	¼	.. Sankari.
	(14) ..	¼	.. Brahmi.
	(15) ..	¼	.. Kaumari.
	(16) ..	¼	.. Attendant of Jina.
	(17) ..	¼	.. Tirthankara.
	(18) ..	¼	.. Another Tirthankara.
	(19) ..	¼	.. Attendant of a Jina.
	(20) ..	¼	.. Chandrasekhara (bronze).
	(21) ..	¼	.. Devi within prabha (bronze).

LIST OF PHOTO NEGATIVES PREPARED DURING 1955–56—*cont.*

Negative number.		Size.	Subject.
			Zoology.
Z. VI	(23)	¼	Moulding a Cobra in plaster.
	(24)	¼	Injecting a Cobra with alcohol.
	(25)	¼	Scraping a dog's skin.
	(26)	¼	Pinning and mounting Insects.
	(27)	¼	Cleaning corals.
	(29)	¼	Applying Arsenical paste to bird skin.
	(30)	¼	Sewing up bird skin.
	(31)	¼	Mounting stuffed birds.
	(32)	¼	Brahminy Duck: male, 1956.
Z VII	(31)	½	Diorama of the cobra.
	(32)	½	Diorama of the Russell's Viper.
	(33)	½	Jungle cat: male, 1956.
			Botany.
BX.	(37)	¼	Ficus sp. growing completely around a palmyrah and doing soil-conversation.
	(38)	¼	A general view of Actiniopteris on walls.
	(39)	¼	A community of Marsilia in a waist-deep pool.
	(40)	¼	A community of Marsilia in a waist-deep pool.
	(41)	¼	A palmyrah palm completely engulfed at the base by Ficus sp.
	(42)	¼	Sand dune smothering a coconut tope.
	(43)	¼	Aloes inside a coconut tope.
	(44)	¼	Pandanus.
BXI	(37)	½	An abnormal fruit of Carica papaya (side view).
	(38)	½	An abnormal fruit of Carica papaya (stalk end view).
	(39)	½	An abnormal fruit of Carica papaya (side view).
	(40)	½	An abnormal fruit of Carica papaya (distal end view).
	(41)	½	An abnormal fruit of Carica papaya (cross section).
	(42)	¼	Ipomæa-Cassytha formation.
			Numismatics.
NB 109	Sata. 26	¼	Satavahana.
NB 110	Pa. 2	¼	Pandyan.
NB 111	Gu. 6	¼	Gupta.
NB 112	Gu. 7	¼	Do.
NB 113	Gu. 8	¼	Do.
NA 9	S.I.C.	½	Select South Indian coins.
NA 10	S.I.C.	½	Do.
NA 11	Arab. 1	½	Arab gold and silver coins.
NA 12	Arab. 2	½	Do.
NA 13	Arab. 3	½	Do.
NA 14	Arab. 4	½	Do.
NA 15	Arab. 5	½	Do.
AN16	Arab. 6	½	Do.

LIST OF PHOTO NEGATIVES PREPARED DURING 1955–56—*cont.*

Negative number.		Size.	Subject.
			Anthropology.
E. XXII.	(39) ..	½ ..	Gond bride and bridegroom.
F. III.	(9) ..	2¼ × 2¼ ..	Rankhandi village, U. P. A Brahman in front of his house.
	(10) ..	" ..	Rankkandi village, U. P. club of Brahmans where they meet for communal purposes.
	(11) ..	" ..	Rankhandi village U. P. boys taking care of buffaloes.
	(12) ..	" ..	Madras sweeper with short handled broom.
	(13) ..	" ...	Do.
	(14) ..	" ..	Do.
	(15) ..	" ..	Madras sweeper with long handled broom.
	(16) ..	" ..	Do.
	(17) ..	" ..	Do.
	(18) ..	" ...	Do.
	(19) ..	" ..	Shop on way to Pakulam, Attapady.
	(20) ..	" ..	Irula Man—Rangan, Pakulam, Attapady.
	(21) ..	" ..	Irula girl—Nari, Pakulam, Attapady.
	(22) ..	" ..	Republic Day procession of school children, Pakulam.
	(23) ..	" ..	Republic Day, Pakulam, school children dancing.
	(24) ..	" ..	Irula girl pounding rice, Chemmanur.
	(25) ..	" ..	Irula woman, Chemmanur.
	(26) ..	" ..	Irula man and two children, Chemmanur.
	(27) ..	" ..	Sudalai, Muduga burial ground near Mukkali.
	(28) ..	" ..	Maligai, Muduga ossuary near Mukkali.
	(29) ..	" ..	Kali and Nanji, Muduga woman of Kakkapadi.
	(30) ..	" ..	Nanji an old Muduga woman of Kakkapadi pounding rice.
	(31) ..	" ..	Muduga house with extensiou being built at side at Sholakadu.
	(32) ..	" ..	Thunda Mooppan, headman of Muduga settlement of Mukkali with his son.
	(33) ..	" ..	Ammichi, a Muduga man of Mukkali.
	(34) ..	" ..	Nanjan, a blind Muduga man of Kakkapadi with his wife and daughter.
	(35) ..	" ..	Malleswara temple on way to Chemmanur.
	(36) ..	" ..	Irula huts at Isittiyur, Attapady.
	(37) ..	" ..	Group of Irulas of Isittiyur, Attapady.
	(38) ..	" ..	Irulas of Isittiyur : Pandan, his wife Pachai, his brother's son Maruda with wife Rangi and daughter Siva.
	(39) ..	" ..	Irulas of Isittiyur : Rangan, his wife Mari, his son Cholavarai with wife Maruthi and three children.
	(40) ..	" ..	Irulas of Isittiyur : Chellan and his wife Mar with his first son Marudan with wifeRangi and child Kuppa and second son Rangan.

APPENDIX VI.

PRICE LIST OF MADRAS GOVERNMENT MUSEUM BULLETINS (NEW SERIES).

NOTE.—Orders for copies of the publications should be accompanied by remittance to cover the cost and postage. For trade terms, the Superintendent, Government Press, Madras, or the Superintendent, Government Museum, Madras, should be addressed.

Volume and number.	Description.	Number of pages.	Number of plates.	Price. RS.	A.	P.
	Natural History Section.					
* Vol. I, No. 1, 1927.	The Littoral Fauna of Krusadai Island in the Gulf of Mannar, with appendices on the vertebrates and plants. By various authors.	196	26	8	0	0
† Vol. I, No. 2, Part I, 1933.	Supplement to the Littoral Fauna of Kurusadai Island in the Gulf of Mannar—Polychæta by P. Fauvel, Pycnogonida by B. Sundara Raj, and Alpheidae by F. H. Gravely.	79	1	2	0	0
† Vol. I, No. 2, Part 2, 1931.	Three Species of Alcyonaria. By Sydney J. Hickson, F.R.S. (with three test figures).	9	Nil.	0	4	0
† Vol. I, No. 2, Part 3, 1936.	Scyphomedusæ of Krusadai Island. By M. G. K. Menon, M.A.	9	1	0	8	0
† Vol. I, No. 2, Part 4, 1937.	Supplement to the Littoral Fauna of Krusadai Island in the Gulf of Mannar—Porifera. By M. Burton, D.SC.	58	9	1	14	0
† Vol. I, No. 2, Part 5, 1943.	The Foraminifera of Krusadai Island in the Gulf of Mannar. By C. P. Gnanamuthu, M.A., D.SC., F.Z.S.	21	4	1	6	0
Vol. I, No. 2, Part 6.	Amphineura and Gastropoda of Kurusadai Island. By S. Thomas Satyamurti, M.A., F.Z.S.	202	30	9	6	0
†‡ Vol. I, No. 2, Part 7.	Scaphopoda Pelecypoda and Cephalopoda of Kurusadai Island. By S. T. Satyamurti, M.A., D.SC., F.Z.S.	267	34	10	12	0
§ Vol. II, 1929.	The Flowering Plants of the Madras City and its immediate neighbourhood. By P. V. Mayuranathan, B.A., Botanical Assistant, Madras Museum.	345	38	8	0	0
Vol. III, No. 1, 1930.	The Scyphomedusæ of Madras and the neighbouring coast. By M. G. K. Menon, M.A., Research Scholar, Madras University, Zoological Laboratory.	28	3	1	2	0
Vol. III, No. 2, 1932.	The Hydromedusæ of Madras. By M. G. K. Menon, M.A.	32	3	1	2	0
Vol. III No. 3, 1933.	The Life Histories of Decapod Crustacea from Madras. By M. Krishna Menon, M.A.	45	10	Bound in one volume.		
Vol. III, No. 4, 1933.	Sagitta of the Madras Coast. By C. C. John, M.A., D.SC.	10	1	2	6	0
Vol III, No. 5, 1937.	Decapod Larvæ from the Madras Plankton. By M. Krishna Menon, M.A., M.SC.	55	9	1	14	0
Vol. III, No. 6, 1940.	Decapod Larvæ from the Madras Plankton—II. By M. Krishna Menon, M.A., M.SC.	47	8	1	8	0

* Volumes ready for binding. Title page and list of contents separately issued.
† This number is reserved for supplements to Krusadai Island, Fauna.
‡ Volume is in the Press.
§ Out of stock.

Volume and number.	Description.	Number of pages.	Number of plates.	Price. RS. A. P.
	Natural History Section—cont.			
Vol. IV, No. 1, 1931.	The Indian Species of Genus Caralluma (Fam. Asclepiadaceae). By F. H. Gravely, D.SC., and P. V. Mayuranathan, B.A., Government Museum, Madras.	28	4	1 8 0
Vol. IV, No. 2, 1938.	Supplement to the Flowering Plants of Madras City and its immediate neighbourhood. By E. Barnes, D.SC.	46	7	1 10 0
Vol. V, No. 1, 1941.	Shells and other Animal Remains found on the Madras Beach. I. Groups other than snails, etc. By F. H. Gravely, D.SC.	112	Nil.	3 2 0
Vol. V, No. 2, 1942.	Shells and other Animal remains found on the Madras Beach. II. Snails, etc. (Mollusca Gastrapoda). By F. H. Gravely, D.SC.	110	Nil.	2 12 0
Vol. VI, No. 1, 1949.	The Thaliacea of the Madras Plankton. By R. Velappan Nair, M.SC.	41	6	1 12 0
* Vol. VI. No. 2,	Cirripedia of the Madras Coast. By A. Daniel.	40	10	2 6 0
	General Section (with separate volumes for Anthropology and Archaeology respectively).			
† Vol. I, No. 1, 1929.	Buddhist Sculptures from a Stupa near Goli village, Guntur district. By T. N. Ramachandran, M.A.	44	4	2 12 0
† Vol. I, No. 2, 1932.	Catalogue of the South Indian Hindu Metal Images in the Madras Government Museum. By F. H. Gravely, D.SC., and T. N. Ramachandran, M.A.	144	23	5 8 0
‡ Vol. I, No. 3, 1934.	Tiruparuttikundram and its temples with appendices on Jaina units of measurement and time, cosmology and classification of souls. By T. N. Ramachandran, M.A.	260	37	11 4 0
‡ Vol. II, No. 1, 1930.	The Adichanallur skulls. By S. Zuckerman, M.A., M.R.C.S., L.R.C.P., with Notes by Prof. G. Elliot Smith, F.R.S.	24	3	1 6 0
‡ Vol. II, No. 2, 1931.	The Sri Vaishnava Brahmans. By Diwan Bahadur K. Rangachari, M.A., L.T.	158	12	5 12 0
‡ Vol. II, No. 3, 1931.	Catalogue of the Musical Instruments exhibited in the Government Museum, Madras. By P. Sambamurthi, B.A., B.L. (Revised Edition).	25	9	1 4 0
‡ Vol. II, No. 4, 1937.	Social and Physical Anthropology of the Nayadis of Malabar. By A. Aiyappan, M.A.	141	12	3 2 0

* Volumes ready for binding. Title page and list of contents separately issued.
† Volumes ready for binding. Title page and list of contents separately issued for Volume III.
‡ Out of stock.

Volume and number.	Description.	Number of pages.	Number of plates.	Price. RS. A. P.
	General Section (with separate volumes for Anthropology and Archaeology respectively)—cont.			
*Vol. III, No. 1, 1934.	The Three Main Styles of Temple Architecture recognized by the Silpasastras. By F. H. Gravely, D.SC., and T. N. Ramachandran, M.A.	26	2	1 0 0
*Vol. III, No. 2, 1936.	An Outline of Indian Temple Architecture. By F. H. Gravely, D.SC.	23	1	0 14 0
Vol. III, No. 3, 1938.	Catalogue of Venetian Coins in the Madras Government Museum. By T. G. Aravamuthan, M.A., B.L.	59	1	1 8 0
*Vol. III, No. 4.	Indian Epigraphy and South Indian Scripts. By C. Sivaramamurti, M.A.	280	12	14 8 0
1939	Guide to the Archæological Galleries. An Introduction to South Indian Temple Architecture and Sculpture. By F. H. Gravely, D.SC., and C. Sivaramamurti, M.A., and other Curators.	48	8	1 0 0
* 1939	Illustrations of Indian Sculpture—Mostly Southern. For use with the Guide to the Archæological Galleries. By F. H. Gravely, D.SC., and C. Sivaramamurti, M.A.	..	45	1 0 0
Vol. IV, 1942.	Amaravati Sculptures in the Madras Government Museum. By C. Sivaramamurti, M.A.	376	65	16 8 0
† Vol. V, No. 1, 1944.	Iravas and Culture Change. By A. Aiyappan, M.A., PH.D. (London).	204	12	16 10 0
Vol. VI, No. 1, 1952.	Possible Sumerian Survivals in Toda Ritual. By H.R.H. Prince Peter of Greece, M.A. (Hry.), LL.D.	24	10	6 4 0
1952	Madras Government Museum Centenary Souvenir (1851–1951).	158	12	5 0 0
1952	Guide to the Buddhist Antiquities. By A. Aiyappan and P. R. Srinivasan.	58	..	1 10 0
Vol. VII, No. 1, 1954.	Nagapatnam Bronzes. By T. N. Ramachandran.	150	30	6 0 0
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	‡ Early Eastern Chalukyan Sculpture. By C. Sivaramamurti.			

CATALOGUES (OLD SERIES).

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* Out of stock.
† Volumes ready for binding. Title page and list of contents separately issued.
‡ In the Press.

CATALOGUES (OLD SERIES)—*cont.*

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8. Gramophone records of the languages and dialects of the Madras Presidency. Text of Passages	1	4	0
9. Catalogue of Batrachia, Salientia and Apoda (Frogs, Toads and Coecilians of South India)—By E. Thurston—1888	2	8	0
10. Guide to the Natural History and Mineral Galleries—1890 ..	0	2	0
*11. Science Series No. 1—Preliminary Report on the Marine Fauna of Rameswaram—1887	0	10	0
*12. Coins of Sultans of Delhi—By E. Thurston—1893	0	3	0

Volume and number.	Description.	Price. RS.	A.	P.
	BULLETINS (OLD SERIES).			
1. No. 1	Pearl and Chank Fisheries in the Gulf of Mannar. By E. Thurston—1894	1	4	0
2. No. 3	Rameswaram Island and Fauna of the Gulf of Mannar. By E. Thurston—1895	1	8	0
3. Vol. II, No. 1 ..	Anthropology: Badagas and Irulas of the Nilgiris, Paniyans of Malabar; A Chinese-Tamil Cross. A Cheruman skull; Kuruba or Kurumba; summary of results. By E. Thurston—1897	2	0	0
4. Vol. II, No. 2 ..	Anthropology: Eurasians of Madras and Malabar; Note on their Tattooing, etc. By E. Thurston —1898	1	0	0
5. Vol. III, No. 2 ..	The Sea Fisheries of Malabar and South Kanara By E. Thurston—1900	1	4	0
6. Vol. III, No. 3 ..	Anthropology: Nayars of Malabar. By F. Fawcett—1901	1	8	0
7. Vol. IV, No. 2 ..	Anthropology: The Dravidian Head; Yanadis of Nellore—1902	1	0	0
8. Vol. IV, No. 3 ..	Anthropology: Some Marriage Customs in South India; Deformity and Mutilation; Uralis, Sholagas and Irulas; Fire-walking in Ganjam; Corporal punishment in vernacular schools—1903	0	12	0
9. Vol. V, No. 1 ..	Anthropology: Vision of the Uralis and Sholagas; More marriage customs in Southern India; Hook-swinging, Palayans—1903	1	0	0

* Out of stock.

APPENDIX VII.

Receipts and Expenditure.

Government Museum.

A. Receipts.

	RS.	A.	P.
Sale of coins, plaster and metal casts of coins	3,301	8	0
Sale of photo-prints, copyright fees for reproduction, etc. ..	738	0	0
Sale of publications	2,102	2	9
Sales tax on publication, photos, etc.	95	3	0
Rent for the use of the Museum Theatre	5,064	0	0
Overtime fee for the Theatre care-taker	324	8	0
Miscellaneous receipts	31	0	3
Total ..	11,656	6	0

B. Expenditure.

APPENDIX VIII.

List of Honorary Correspondents.

Serial number.	Name of the district.	Name and address of the Honorary Correspondent.
1	Tanjore	Sri T. S. Aravamudha Ayyangar, B.A., B.L. Advocate, Kumbakonam.
	Do.	Sri K. Lakshmikantham, B.A., B.L., Advocate, Mayuram.
	Do.	Sri A. Vedaratnam, Vedaranyam.
2	Malabar	Sri V. Vijayan, M.A., Assisstant Lecturer in Malayalam, Government Victoria College, Palghat.
	Do.	Sri K. V. Sankaran Nair, M.A., B.L., Advocate, Taliparamba.
	Do.	Sri K. Radhakrishna Menon, M.A., Headmaster, Seva Mandir Basic Training School, Ramanattukara, Malabar district.
3	Tirunelveli	Sri A. V. Subramani Iyer, Correspondent, "Hindu", Perumalpuram, Palayamkottai.
	Do.	Sri A. Srinivasa Raghavan, M.A., Principal V.O.C. College, Tuticorin.
	Do.	Sri A. Chidambaram Pillai, M.A., Ilanji, Tenkasi taluk.
4	North Arcot	Sri C. Doraswamiah, B.A., B.L., Advocate, Vellore.
	Do.	Sri A. Parthasarathy, B.A., Honorary Secretary, Indian Conference of Social Work, North Arcot, Vellore.
	Do.	Sri T. S. Ramanatha Iyer, B.A., B.L., Advocate, Tiruppattur.
5	Ramanathapuram ..	Sri P. Duraikannu Mudaliar, M.A., L.T., Dip. Econ., Principal, Alagappa Chettiar College Karaikudi.
	Do.	Sri M. Rajah Iyer, M.A., L.T., Headmaster Rajah's High School, Ramanathapuram.
	Do.	Sri G. Kalyanam, M.A., Dip. Econ., Tahsildar, Sattur.

LIST OF HONORARY CORRESPONDENTS—*cont.*

Serial number.	Name of the district.	Name and address of the Honorary Correspondent.
6	Chingleput	Dr. P. S. Srinivasan, L.M.P., Kancheepuram.
	Do.	Sri T. V. Kuppuswami Reddiar, B.A., B.L., No. 23, Car street, Madurantakam.
	Do.	Sri K. Raghunathan, M.A., B.L., No. 19, Motilal street, Tiruvallur.
7	Ootacamund	Sri H. Abdul Rahim Sait, Southwick, Ootacamund.
	Do.	Sri K. B. Nandhi, Advocate, Ootacamund.
	Do.	Sri A. Dharmalingam, Correspondent, "The Hindu" Greenfields, Ootacamund.
8	South Kanara	Sri K. S. Karanth, Journalist, Puttur.
	Do.	Sri K. P. Mukunda Prabhu, B.A., Landlord Post Box No. 4, Karkal P.O.
	Do.	Sri D. Manjayya Heggade, Dharmastal.
9	South Arcot	Sri G. Vagheesam Pillai, M.L.A., Pinnalur Post, Chidambaram taluk.
	Do.	Sri G. Devanathaswami Naidu, B.A., B.L., Advocate, Tiruppapuliyur.
	Do.	Dr. Miss. D. Prianathan, John's Clinic, Tirukkoyilur.
10	Madurai	Sri T. Totadri Ayyangar, M.A., Principal, Madurai College, Madurai.
	Do.	Sri R. Nagaraj, Railway Special First-class Magistrate, Madurai.
	Do.	Sri P. Rangaswami Naidu, Advocate (retired District Judge), Madurai.
11	Tiruchirappalli ..	Sri G. O. Pattabhiraman, B.A., c/o G. N. Chakrapany Chetty & Sons; Post Box No. 29, Tiruchirappalli.
	Do. ..	Sri R. Kalamegam, B.A., M.B.B.S., "Dwaraka", Tennur, Tiruchirappalli.
	Do. ..	Sri N. T. Viswanatham, Advocate, D-90, Ninth Cross Road, Thillainagar, Tiruchirappalli.
12	Salem	Rao Bahadur C. Duraiswami Gounder, B.A., retired Deputy Commissioner of Commercial Taxes, Krishnagiri.
	Do.	Sri R. S. Veerappa Chetti, Mirasdar, Karimangalam.
	Do.	Sri T. V. Chokkappa, M.A., L.T., Lecturer in History and Politics, Salem College, Salem.
13	Coimbatore	Sri S. Meenakshi Sundaram, B.A., L.T., Chairman, Municipal Council, Erode, and Correspondent of Sengunthar High School and Kalaimagal Kalvinilayam, Erode.
	Do.	Dr. D. K. Muthuswamy, M.B.B.S., Medical Practitioner and Honorary Assistant Surgeon, Erode.
	Do.	Sri G. A. Muthu Reddy, B.A., B.L., Advocate, Gobichettipalayam.
14	Madras	Sri G. Venkataraman, M.A., M.SC., L.T., Professor of Botany, Vivekananda College, Mylapore, Madras-4.
	Do.	Sri T. Dhanakoty, M.A., Head of the Department of History, Sir Theagaraya College, Washermenpet, Madras-21.
	Do.	Sri T. R. Ramachandran, Assistant, Professor of History, Pachaiappa's College, Madras-10.

APPENDICES RELATING TO THE GOVERNMENT MUSEUM, PUDUKKOTTAI.

APPENDIX A.

STATEMENT SHOWING THE NUMBER OF VISITORS TO THE MUSEUM DURING THE YEAR 1955–56.

Months.	Illiterates.		Illetrates.		Purdah ladies.	Students and teachers.			Grand total.
	Males.	Females.	Males.	Females.		Teachers.	Boys.	Girls.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1955									
April	1,926	1,120	3,719	4,106	65	12	86	17	10,871
May	1,946	1,070	5,107	4,433	74	1	14	2	12,561
June	2,016	1,059	3,851	4,293	55	..	..	..	11,219
July	1,983	1,102	3,494	3,943	69	12	222	132	10,522
August	2,098	1,156	3,674	4,054	73	13	304	117	10,982
September	2,028	987	3,467	3,816	33	20	238	109	10,298
October	1,481	799	2,823	3,128	61	14	239	..	8,231
November	1,798	983	3,516	3,835	16	5	88	..	10,132
December	1,825	1,033	3,571	4,005	81	1	15	..	10,434
1956									
January	1,644	934	3,239	3,386	85	..	..	..	9,203
February	1,959	1,279	3,537	3,925	51	35	175	222	10,700
March	1,880	1,171	3,607	3,962	37	4	12	136	10,620
Total ..	22,584	12,693	43,605	46,891	700	117	1,393	735	125,773

APPENDIX B.

LIST OF EDUCATIONAL INSTITUTIONS WHICH VISITED THE MUSEUM IN 1955–56.

1 Bala Vithyasala, Tennur, Tiruchirappalli.
2 St. Jo sph's Higher Elementary School, Ammapattanam, Tanjore district.
3 Board West School, Arantangi.
4 Board High School, Kaveripatnam, Salem district.
5 Chettipatti School, Namanasamudram, Pudukkottai territory.
6 S.S.A. High School, Rangiem, Pudukkottai territory.
7 Board Middle School, Pudukkottai.
8 Board High School, Tirugokarnam, Pudukkottai.
9 Board Elementary School, Theethanpatti..
10 Board Elementary School, Tirukkattalai.
11 De Britto High School, Devakkottai.
12 Rajagopalapuram School, Pudukkottai.
13 Ranee's Government Girls' High School, Pudukkottai.
14 P.E.T. Government Training School, Pudukkottai.
15 Municipal Elementary School, Tirugokarnam, Pudukkottai.
16 N.M. Board High School, Tiruppattur, Ramanathapuram district.
17 S.V. School, Kothamangalam.
18 Board Elementary School, Thirumalarayapuram village.
19 Sri Subbarama Ayyar's Secondary School, Pudukkottai.

LIST OF EDUCATIONAL INSTITUTIONS WHICH VISITED THE MUSEUM IN 1955–56—*cont.*

20 St. Anne's Higher Elementary School, Tiruchirappalli.

21 St. Joseph's Higher Elementary School, Muthupettai near Mandapam.

22 S.M. Higher Elementary Vidyasala, Susaiappanpattnam, Ramanathapuram district.

23 Board High School, Ariyalur.

24 G.B.T. School, Pudukkottai.

25 St. Mary's High School, Mathurai.

26 S.M. Higher Elementary Vidyasala, Panayappatti.

27 Kalaimagal Padasalai, Viralimalai.

28 Holy Redeemer's Elementary School, Palakkarai, Tiruchirappalli.

29 S.B.F. Higher Elementary School, Ramachandrapuram.

30 Government Training College, Pudukkottai.

31 Board Elementary School, Agarapatti.

32 Middle School, Tirugokarnam, Pudukkottai.

33 Sarasvathi Kalasalai, Kummangudi, Tirumayam taluk, Pudukkottai.

34 R.C. Girls' High School, Tanjore.

35 Board Elementary School, Rajakulathur, Tiruchirappalli district.

36 Koppanapatti School, (Kalaimagal Kalluri).

37 S.K.T. Gandhi Elementary School, Rayavaram.

38 All Saints Middle School, Tiruchirappalli.

39 R. C. S hool, Marthandapuram, Pudukkottai.

40 All Saints Elementary School, Woraiyur, Tiruchirappalli.

41 B.H.S., Alangudi, Pudukkottai territory.

42 Ranee's Municipal School, Pudukkottai.

43 Manamerkudi School, Arantangi taluk, Tanjore district.

APPENDIX C.

SPECIMENS ADDED TO THE MUSEUM DURING THE YEAR 1955–56.

Serial number and name of specimen.	Number.	Remarks.
Zoology.		
I. Vertebrate gallery—		
(1) Pisces—A golden yellow perch-fish ..	1	Presented by Dr. (Mrs.) Azuma, Dental Surgeon, Satyamurthi Road, Pudukkottai.
(2) Reptiles—Snakes—		
Cobra (binocellate) Naja naja—adult ..	1	Purchased.
Do. young ..	1	Presented by M. Satyamurti, Nig..t-watchman.
Pit viper	1	Presented by P. M. Mani, peon of the museum.
Chamaeleon snake (Tropidionotus stolatus).	1	Caught alive by the Curator.
Monitor lizard (Varanus bengalensis)—a young one.	1	Presented by P. M. Mani, peon of the museum.
(3) Mammals—		
Skull of a Palm-Civet or Toddy-Cat (P radoxu us niger).	1	Reserve collections.
Skull of the Indian jackal (Canis aureus).	1	Do.

SPECIMENS ADDED TO THE MUSEUM DURING THE YEAR 1955–56—*cont.*

Serial numbea and name of specimen.	Number.	Remarks.
Zoology—cont.		
II. Invertebrate gallery—		
(1) Arthropoda—Arachnida: Bird-spider (Avacularida Sp.).	1	Reserve collections.
(2) Myriapoda—A large Centipede (Scolopendra subspinipes).	1	Caught by Curator.
Entomology—		
(1) Orthoptera—Acridiidae: Painted grasshopper on 'Modar' (Calotropis gigantea), Pœcilocerus pictus).	2	Collected by Curator.
(2) Coleoptera—Dynastidae: Palm-beetle (Oryetes rhinoceros).	1	Do.
Ceranbycidae—Mango stem-borer (Batocera rubus).	1	Do.
Botany.		
Stilt or prop-root of Screwpine (Pandanus odoratissimus) showing the root-cap.	2	Collected by the Curator.
Root-tubers of Asparagus racemosus solid bulb of Crinum asiaticum.	2	Do.
Art and Industries.		
Paintings—Cochin Murals—		
Scenes from the Ramayana	20	Presented by
Plates dealing with Hindu Mythology ..	20	H.H. the Raja of Pudukkottai.
Iranian Frescoes, 16–17 Cent. A.D. reconstructed by Sarkis Katchadourian.	2	Presented by the Pudukkottai Darbar.
Paintings representing the Tanjore, Deccani, Rajput, Jaipur and Modern Schools.	19	Presented by the Madras museum.
Modern paintings	2	Museum reserve collection.
Photo-enlargement of the late Sir A. Seshia Sastriar, Dewan of Pudukkotai.	1	Enlarged at the Government Museum, Madras.
Anthropology.		
Photographs of a Sooth-sayer, Kummi dance by Gypsy women, and a mendicant with a bull (Perumal madu).	3	Photographed by the Curator.
Agriculture.		
Coloured posters on Irrigation devices ..	12	Presented by the District Agricultural Officer, Tiruchirappalli.
A picota at work	1	Photographed by the Curator.
Archaeology.		
Photographs of the ancient monuments and sculptures in the Pudukkottai territory.	18	Photographed by the Curator.
Photographs of the Amaravathi sculptures exhibited in the Government Museum, Madras.	18	Presented by the Madras Museum.
Photographs of the Nataraja and other bronzes exhibited in the Madras Museum.	16	Do.

APPENDIX D.

LIST OF BOOKS ADDED TO THE MUSEUM LIBRARY DURING THE YEAR 1955–56.

Serial number and name of book	Number of copies.	Remarks.
Books presented.		
1 The Madras Financial Code, Volume I	1	..
2 Madras Services Manual, Volume III (Subordinate Services—Special Rules)	1	..
3 Sangith-Hindi	1	..
4 The Madras Treasury Code, Volume II (Second edition)	1	..
5 Administration Report of the State Museum, Lucknow—From 1st April 1950 to 31st March 1954	1	..
6 Corporation of Madras—Zoo Centenary Souvenir, 1955	1	..
7 The General Provident Fund (Madras) Rules (as corrected up to 31st January 1955)	1	..
8 Manavar Ilakkiya Poonga, District Board High School, Tirukogarnam, Pudukkottai	1	..
9 Teachers' College, Madras—Centenary Souvenir (1856–1956)	1	..
10 Administration Report of the Government Museum, Madras, the National Art Gallery, Madras, and the Government Museum, Pudukkottai	1	..
11 Annual Report of K.V.S.S. Kalloori, Tiruppanandal, 1955–56	1	..
12 Sri Sivasami Ayyar High School Magazine, Tirukkattuppalli	1	..
13 Sri Sivasami Ayyar High School, Tirukkattuppalli, Golden Jubilee Celebrations, 5th February 1956	1	..
14 The Indian Literary Review, Volume XXV, No. 12.	1	..
15 The Indian Literary Review, Volume XXVI, Nos. 2, 4 (2 copies), 6 (2 copies) and No. 7	6	..
16 The Indian Literary Review, (2 copies)	1	..
Periodicals.		
17 The Journal of Numismatic Society of India, Volume XVI, Part II	1	..
18 The Journal of Numismatic Society of India, Volume XVII, Parts I and II	2	..
19 The Journal of the Bombay Natural History Society, Volume 52, No. 4	1	..
20 The Journal of the Bombay Natural History Society Volume 53, Nos. 1 and 2	2	..
21 The Journal of the Bombay Natural History Society, Index for Volume 51, Nos. 3 and 4 ..	2	..
22 Marg Magazine, Volume VIII, Nos. 2, 3 and 4 ..	3	..
23 Marg Magazine, Volume IX, No. 1	1	..
24 Man in India, Volume 35, Nos. 1, 2, 3 and 4 ..	4	..
25 Journal of Indian Museums, Volume X, 1954 ..	1	..
Book purchased.		
26 The Snakes of India and Pakistan	1	..
Total ..	40	..

DEPARTMENT OF HEALTH, EDUCATION AND LOCAL ADMINISTRATION

(Education)

G.O. No. 2112, 24th November 1956

Museum—Administration Report of the Government Museums at Madras and Pudukkottai and the National Art Gallery for the year 1955-56—Recorded.

READ—the following paper :—

From the Superintendent, Government Museum, Madras, No. 1949/56-B, dated 9th June 1956.

Order—No. 2112, Education, dated 24th November 1956.

Recorded.

2. The Government Museum continued its useful work during the year 1955-56. The term of the first batch of honorary correspondents for the Museum appointed in 1951 expired in October 1954. Forty-two honorary correspondents, three for each district, were appointed for a period of three years from 12th December 1955.

3. Fifty-two sets of metal casts of coins of India representative of the coinage of India through the ages, were sold to the educational institutions under the Audio-Visual Education Scheme. Two batches of teachers were given intensive training in Museum Technique during May and June 1955; each batch underwent a fortnight's training in Museum methods in Zoology, Botany, Archaeology, Anthropology, Numismatics and Chemical Conservation. One hundred and one teachers belonging to 20 city high schools attended the demonstrations in Anthropology, Archaeology, Botany and Numismatics on Saturdays during November and December 1955. The preliminary work connected with the Buddha Jayanthi Celebrations was taken up during the close of the year.

4. During the year under review, the following special exhibitions were held :—

(1) "Ancient South Indian Temple Utensils".
(2) "Colour and Beauty in Birds Eggs".

(3) "Gond Jewellery".

(4) "Satavahana coins".

(5) "Tea".

Ninteen exhibitions and meetings were held in the Centenary Exhibition Hall.

5. During the year, the Pudukkottai Government Museum took part in the Art Exhibition at Tanjore. Select bronzes and photographs from the Archaeological Section and arms and armour from the Ethnological Section were exhibited. A certificate of Merit was awarded to the Museum.

6. The total number of visitors to the National Art Gallery, Madras, and the daily average attendance during the year, were 66,361 and 166 respectively as against the previous year's figures of 73,323 and 237 respectively. Many of the foreign visitors were impressed with the exhibits in the gallery. The total number of visitors to the Government Museum, Pudukkottai, during the year was 125,773 with a daily average attendance of 449 as against 121,769 with a daily average attendance of 433 in the previous year. The number of visitors to the Government Museum, Madras, was 624,638 as against 463,466 during the year 1954–55. There was a marked increase of 35 per cent in 1955–56. The institution continued to be popular.

(By order of the Governor)

V. Ramaswami,
Deputy Secretary to Government.

To the Superintendent, Government Museum. Madras.
,, Director of Public Instruction.
,, Accountant-General.
,, Director-General of Archæology, Government of India, New Delhi.
,, Revenue Department.
,, Industries, Labour and Co-operation Department.
,, Librarian, Madras Legislative Library.
,, Secretariat Library.